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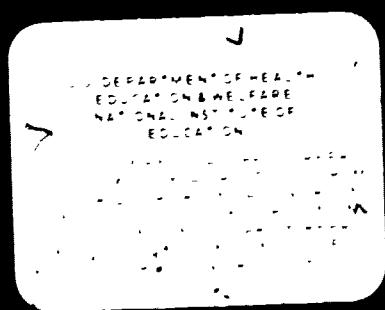
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ABSTRACT

A brief summary of data gathered from the Survey of
Earned Doctorates during the academic year 1976-1977 is presented in
this, the eleventh in a series of yearly summaries of data, a series
that began in 1967. Data was obtained from questionnaires filled out
by the graduates as they completed all requirements for their
doctoral degrees, and refers to doctorates earned during the period
July 1, 1976 to June 30, 1977, exclusive of professional degrees such
as the M.D., D.D.S. and D.V.M. Statistics show that the 31,672
doctorates awarded by U.S. universities in 1977 was a 3.8 percent
decrease from the 1976 figure of 32,936. In an analysis of 10
selected fields, graduate programs in mathematics, physics,
chemistry, electrical engineering, zoology, and German rated as
distinguished in earlier studies showed smaller percentage decrease
in numbers of Ph.D.'s than programs with lower ratings. This was not
true in mechanical engineering, entomology, geography and the
classics. The number of doctorates awarded to men decreased by 5.6
percent from 25,253 in 1976 to 23,827 in 1977 while the number of
doctorates awarded to women increased by 2.1 percent from 7,683 in
1976 to 7,845. It is also shown that the proportion of Ph.D.'s still
seeking postdoctoral study at time of Ph.D. increased from 4.4
percent in 1976 to 4.8 percent in 1977 and the proportion of Ph.D.'s
still seeking employment at time of Ph.D. in 1977 was 21.3 percent,
unchanged from 1976. (SFG)



HIGHLIGHTS

- The 31,672 doctorates awarded by United States universities in 1977 was a 3.8% decrease from the 1976 figure of 32,936.
- There has been a decrease in the total number of Ph.D.'s in each year since 1973 and the largest of these decreases, 1,264 Ph.D.'s, occurred between 1976 and 1977.
- In an analysis of ten selected fields, graduate programs in mathematics, physics, chemistry, electrical engineering, zoology, and German rated as distinguished in earlier studies showed smaller percentage decreases in number of Ph.D.'s than programs with lower ratings. This was not true in mechanical engineering, entomology, geography and the classics.
- The number of doctorates awarded to men decreased by 5.6% from 25,253 in 1976 to 23,827 in 1977. The number of men Ph.D.'s decreased in all seven broad fields.
- The number of doctorates in the physical sciences and engineering awarded to men in 1977 is smaller than the number in 1967.
- The proportion of doctorates awarded to women continued to increase, reaching an all-time high of 24.8% in 1977.
- The number of doctorates awarded to women increased by 2.1% from 7,683 in 1976 to 7,845.
- The number of women Ph.D.'s increased in all broad fields except the life sciences and the humanities.
- The proportion of Ph.D.'s still seeking postdoctoral study at time of Ph.D. increased from 4.4% in 1976 to 4.8% in 1977.
- The proportion of Ph.D.'s still seeking employment at time of Ph.D. in 1977 was 21.3%, unchanged from 1976.

Summary Report 1977 DOCTORATE RECIPIENTS FROM UNITED STATES UNIVERSITIES

The Survey of Earned Doctorates is conducted by the National Research Council for the National Science Foundation, the U.S. Office of Education, the National Institutes of Health, and the National Endowment for the Humanities

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Commission on Human Resources
NATIONAL RESEARCH COUNCIL

NATIONAL ACADEMY OF SCIENCES
February 1978

FOREWORD

This report presents a brief summary of data gathered from the Survey of Earned Doctorates during the academic year 1976-77. The survey is conducted annually by the Commission on Human Resources of the National Research Council. Questionnaire forms, distributed by the association of the Graduate Record, are submitted by the graduates as they complete their advanced work in their doctoral degrees. The data in this report refer to doctorates earned during the period July 1, 1976 to June 30, 1977, but they do not include professorial degrees such as the M.D., D.O., and D.V.M.

The draft sub-report on the use of the Doctoral dissertation database in the preparation of the resulting dissertation and the conclusions of the report are submitted to the National Science Policy Council, the National Center for Education, the National Institutes of Health, and the National Endowment for the Humanities. The CEP wishes to express its thanks to these agencies for their assistance.

The CEP is concerned with the development of the best and broadest possible range of the more effective types of control, and one of the best and most effective types of control is the use of the best and most effective types of control.

center. Information on the new model and
the cost of a typical trial will be available
in the first issue of *Journal of Clinical Trials*. In
addition, the editor has a special issue planned
for publication in the fall of 1993, featuring
the content that formed the basis of the meeting, and
a committee will be formed to continue the work.
Any questions or comments may be directed to the Committee on
Resources, National Research Council, 2101 Constitution
Avenue, Washington, D.C. 20418.

Dorothy M. St. John
Director, Family Resources Center

*NOTICE: This report is based on research conducted by the National Research Council at the request of the National Science Foundation, the U.S. Office of Science and Technology, the National Endowment for the Humanities, the National Endowment for the Arts, the National Science Foundation, and the National Endowment for the Arts. The findings, conclusions, and recommendations are those of the author and do not necessarily reflect the views of the participating agencies.

INTRODUCTION

The total number of doctorate recipients in 1977 was 31,672 (Text Table A). This number constitutes a decrease of 1,064 or 3.2% from the 32,936 doctorates awarded in 1976.

TEX- TABLE A

Year	Doctorates	Year	Doctorates
1967	26,406	1970	33,785
1968	22,936	1974	33,146
1969	26,746	1975	32,936
1970	29,810	1976	32,936
1971	31,672	1977	31,672
1972	32,936		

Figure 1, graphically displays data from Text Table A on the trend in doctorates awarded by U.S. universities. It shows a general trend of a decline of doctorates granted each year since 1970, with the largest drop of 1,064 (3.2%) occurring between 1976 and 1977. This is the largest annual drop in number of doctorate recipients in the 112 years that doctorates have been awarded by United States universities. It is the largest percentage drop since 1966.¹

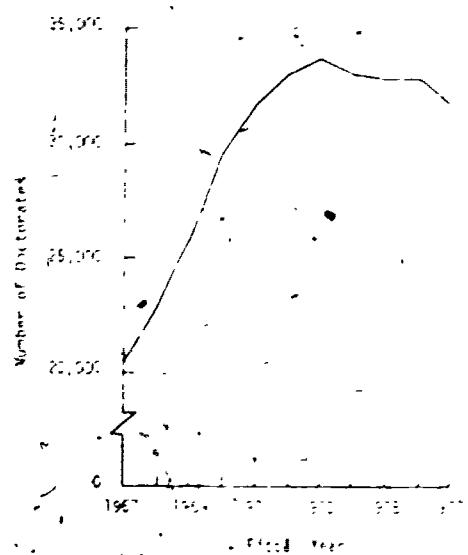


FIGURE 1
Doctorates Awarded by U.S. Universities,
1967-1977

Selected statistics from the 1977 Survey of Earned Doctorates and Trends in Doctorate Recipients based on the Doctorate Recipients File are included in this report. The data were selected to illuminate the drop in doctorate recipients through, sex, by field, by cadre, a category of doctoral-reporting institution, and by a two-digit Anderson rating of vocational department. The Summary Table for 1976 Doctorate Recipients presented trend data on postgraduation of 1976 doctorate recipients, with emphasis on those still seeking employment or postdoctoral study, and data on field of study from baccalaureate field to Ph.D. field to field of first planned postdoctoral employment.

PROPORTION OF WOMEN PH.D.'S INCREASES

The trend for an increasing proportion of doctorates to be awarded to women started in 1966 when 34.2% of the doctorates were female. The most recent all-time high of 42.3% in 1977. The proportion of women Ph.D.'s increased to 40.0% each year, however. The 1977 figure is 1.2% less than that for 1969, the smallest figure in the past decade. For men, however, the decrease of 1,426 from 1976 to 1977 is the largest per capita decrease since the master year, 1970.

From Figure 2, it can be seen that the number of men Ph.D.'s decreased from 1976 to 1977 in all fields and that the number of women Ph.D.'s increased slightly in the same 1976-1977 period. The number of women Ph.D.'s in the broad fields — fields — education, social sciences, life sciences, professional, arts and engineering — continued to increase. The total number of Ph.D.'s dropped from 1976 to 1977 in all seven of the broad fields. The largest percentage decrease occurred in the professional fields, which dropped by 9.1% from 1976 to 1977 to 1,140. This, in 1977, followed by a 5.7% decrease from 2,331 in 1976 to 2,167 in 1977, in engineering.

1. Includes survey responses received after publication of earlier Summary Reports.
2. Data for 1960-1964 given in Summary Report, 1976, Doctorate Recipients from United States Universities, p. 4, National Research Council, Washington, D.C.
3. Data for 1966-1976 U.S. doctorate recipients by broad field and sex given in Summary Report, 1976, Doctorate Recipients from United States Universities, p. 5, National Research Council, Washington, D.C.
4. Text statistics include six new majors for 1976 received from seven women and six men after publication of the 1976 Summary Report.
5. Total for 1976 adjusted to correspond to 1977 total which includes environmental engineers, who were formerly included in the environmental sciences.

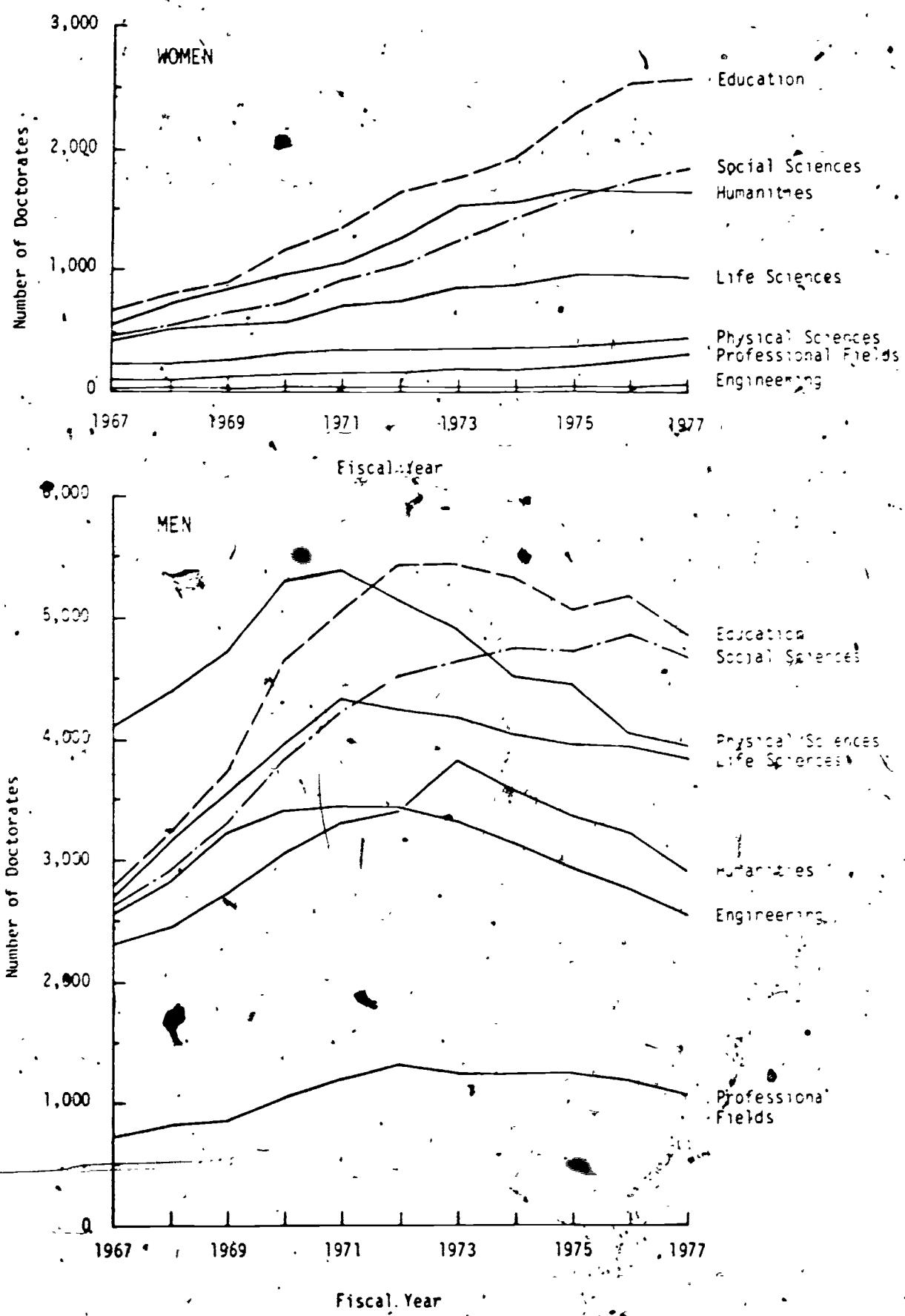


FIGURE 2
Number of United States Doctorates by Broad Field: 1967-1977

~~A DECREASE IN NUMBER OF DOCTORATES AWARDED TO MEN IS FOUND IN SEVERAL CATEGORIES OF UNIVERSITIES~~

To determine whether the decrease in number of Ph.D.'s is distributed evenly across the doctorate-granting institutions, Text Table B and Figure 3 provide data for the six largest broad fields on number of Ph.D.'s by Carnegie classification of institution, by sex. The Carnegie classification system is based on statistics on federal financial support and degrees awarded. Abbreviated definitions¹ of the Carnegie categories used in this report are given below.

Research Universities I: The 50 leading universities by federal financial support of academic sciences in at least two of the three academic years 1968-1969, 1969-1970 and 1970-1971 provided they awarded at least 50 Ph.D.'s in 1969-1970.

Research Universities II: Included in the 45 leading institutions by federal financial support in at least two of the above three years, awarded at least 50 Ph.D.'s in 1969-1970 or among the leading 50 institutions in total number of Ph.D.'s awarded from 1968-1969 to 1969-1970.

Doctoral-Granting Universities I: Awarded 50 or more Ph.D.'s in 1969-1970 or received at least \$3 million in federal financial support in 1969-1970 or 1970-1971 and granted more than 20 Ph.D.'s.

Doctoral-Granting Universities II: Awarded at least 10 Ph.D.'s in 1969-1970 and are of a few new institutions where expansion of the doctoral program is anticipated.

All Other Rated: includes all other institutions that were classified by the Carnegie Commission. These are primarily, but not exclusively, professional schools and specialized institutions.

The Research Universities I category, the largest in terms of number of Ph.D.'s, has been further subdivided by type of control into the group of 30 public institutions and 22 private institutions in this category to provide analysis groups more comparable in size.

Of the six largest fields, those showing large decreases in numbers of men Ph.D.'s are physical sciences, engineering, life sciences, humanities and education. The graphs for these fields generally show decreases in number of men Ph.D.'s for the four categories of institutions.

Public Research I, Private Research I, Research II and Doctoral-Granting I and II. The number of men receiving doctorates from institutions in the "All Other" category tended to increase slightly for these fields, except for the field of education, where there was a sizable increase followed by a drop from 1976 to 1977.

In the social sciences there has been only a small drop in the number of men Ph.D.'s during 1974-1977 but again the decrease is reflected in all the categories except "All Other." Of note is the number of doctorates in social sciences granted to men by the Doctoral-Granting I and II institutions. The number in this category exceeded the number in the Research II category in 1975 and 1977.

In the life sciences, the Research I institutions consistently granted more doctorates to men than did the Research I private institutions. An inversion of the relative position of these two categories in the physical sciences, engineering, social sciences and humanities. The pattern for education shows additional inversions of institutional categories.

The graphs for women Ph.D.'s differ from those for men primarily in that the lines are still ascending in the life sciences and the humanities, only starting to drop. The relative position of the lines on the graphs for different Carnegie categories for a field are essentially the same for women as for men. Because of the small numbers of women Ph.D.'s in some fields, there are more pronounced peaks and troughs in the graphs for women.

The proportion of women receiving Ph.D.'s from private Research I institutions is nearly equal to the proportion receiving Ph.D.'s from public Research I institutions for each of the fields, physical sciences, engineering and the humanities. On the other hand, public Research I institutions award by far the largest number of Ph.D.'s to men in those fields. In each of the six fields the proportion of women receiving Ph.D.'s from private Research I institutions is greater than the corresponding proportion of

1 Carnegie Commission on Higher Education, A Classification of Institutions of Higher Education, Berkeley: Carnegie Foundation for the Advancement of Teaching, 1973.

2 Used with permission. Copyright © 1973 by the Carnegie Foundation for the Advancement of Teaching

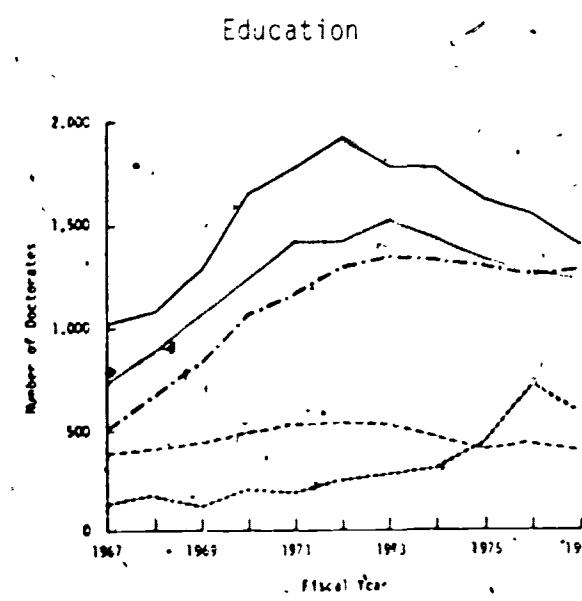
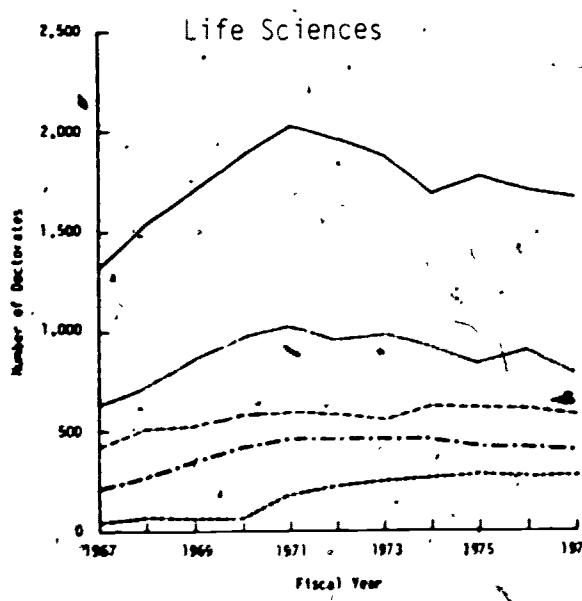
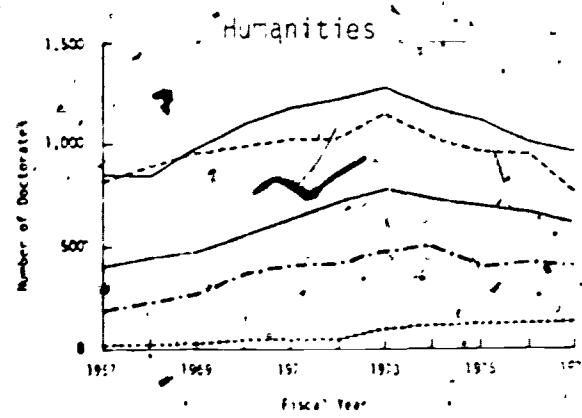
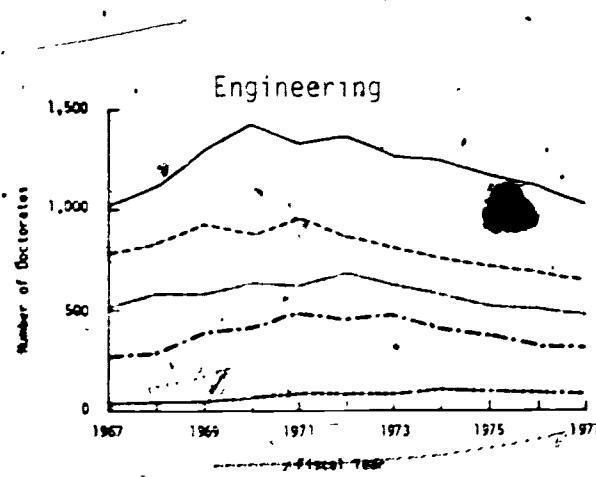
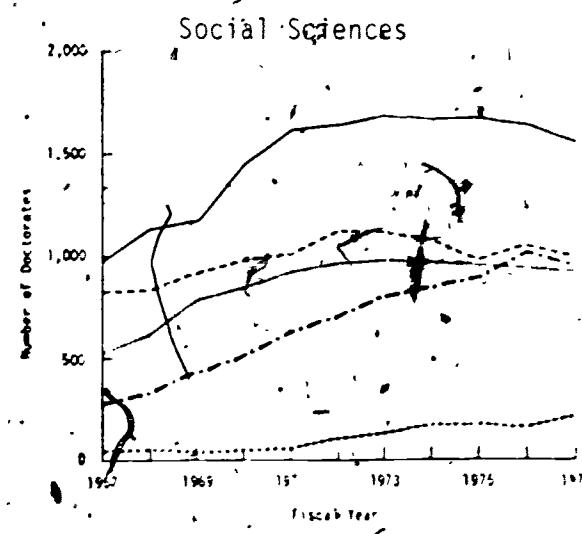
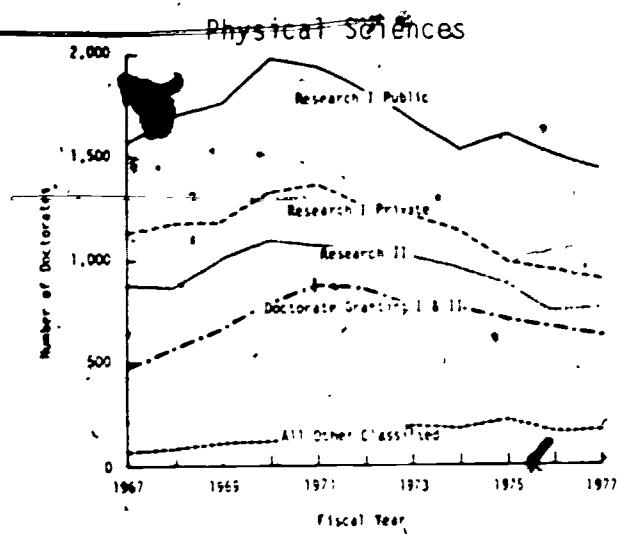
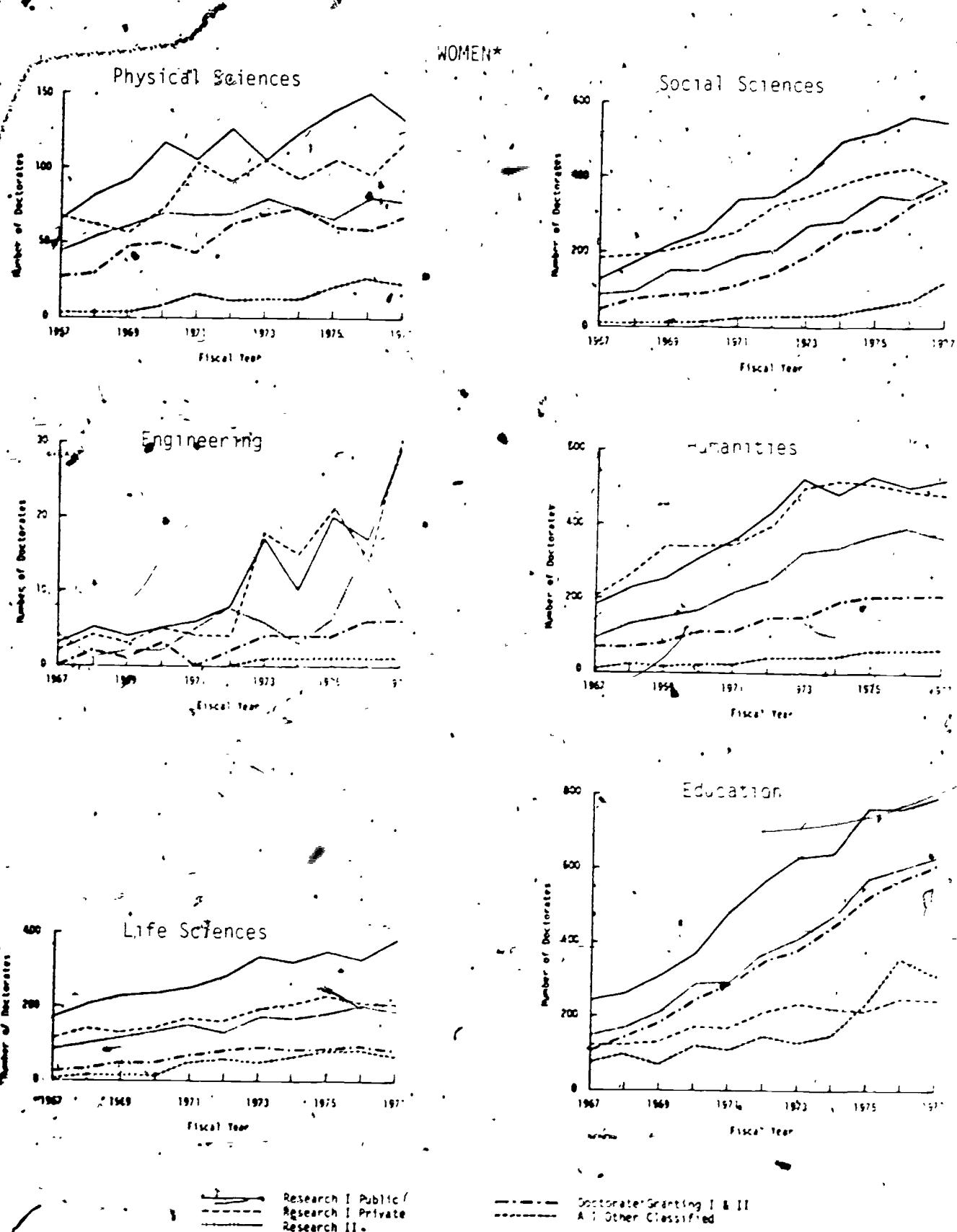


FIGURE 3
Doctorate Recipients by Carnegie Classification of Doctorate-Granting Institution,
Sex and Field of Doctorate, 1967-1977



* Scales vary because of large differences in field totals.

FIGURE 3 Continued

TEXT TABLE B
Distribution of Doctorate Recipients by Carnegie Classification of Doctorate-Granting Institutions, Sex and Field of Doctorate - 1991-92

WE

1/ Total includes ~~doctors~~ recipients from institutions not classified by Carnegie Commission.

DISTINGUISHED GRADUATE PROGRAMS TEND TO SHOW SMALLER PERCENTAGE DECREASES IN NUMBER OF PH.D.'S THAN PROGRAMS WITH LOWER RATINGS

To obtain a sharper focus on the locus of the decrease in number of Ph.D.'s, Text Table C and Figure 4 provide data for 10 of the 36 disciplines for which Roose-Andersen¹ ratings of graduate programs are available. The top Roose-Andersen ratings for departments are "Distinguished" (those with ratings of 4.00 and higher) and "Strong" (3.00-3.99). For the purpose of this report, programs receiving scores below 3.00 are included in a category of "Other Rated" programs. The disciplines included in Table C were selected from the 12 disciplines showing the largest percentage drop between the peak year in number of Ph.D.'s and 1977. Although this group included four engineering fields, two of them (chemical and civil) were omitted to maintain a wide spread of disciplines while meeting space limitations allowing only 10 fields.

In Figure 4, some similarities are discernible for the disciplines of mathematics, physics, chemistry, mechanical engineering and zoology. In each of these the largest number of Ph.D.'s was awarded by programs in the "Other Rated" category and the largest drop in number of Ph.D.'s from peak year to 1977 occurred in the "Other Rated" programs. The largest percentage decrease in Ph.D.'s occurred in the "Strong" programs except in the fields of zoology and mechanical engineering where it was in the "Other Rated" programs. The percentage decrease in Ph.D.'s for "Distinguished" programs was smaller than the decrease for "Strong" and "Other Rated" programs except in mechanical engineering. In mathematics and physics, the "Distinguished" programs and the "Strong" programs award approximately equal numbers of doctorate degrees. The number of Ph.D.'s from "Not Rated" programs grew from 1967 to 1973 or 1974 and then dropped slightly in all five fields.

The largest numbers of Ph.D.'s in entomology, geography and the classics are granted by the

"Strong" programs, followed by the "Other Rated" programs. The "Distinguished" programs and the "Not Rated" programs grant many fewer Ph.D.'s than the "Strong" and "Other Rated" programs, and in each of the three fields, the "Other Rated" programs have surpassed or equalled the "Distinguished" programs in number of Ph.D.'s during the period 1967-1977. In each of the three fields, the three rated categories of programs have shown decreases in number of Ph.D.'s but the numbers of Ph.D.'s are too small for meaningful comparison between categories.

In electrical engineering the number of Ph.D.'s awarded by the "Distinguished" programs is consistently smaller than the number for each of the other three categories. All three rated categories showed a drop of over 30% in number of Ph.D.'s from peak year to 1977, the largest numerical drop occurring in the "Other Rated" category.

In the field of German, the "Distinguished" category showed the smallest percentage drop of the three rated categories of programs. The "Not Rated" category grew rapidly during 1967-1976 but dropped in 1977.

In summary, in six of the seven largest fields analyzed, the trend in number of doctorates granted by distinguished departments has decreased at a slower rate than the trend in lesser rated departments. Moreover, the proportion of doctorates granted by the top-rated departments for fields shown in Text Table C has been relatively stable from 1967 to 1977. In fact, for the nine fields other than classics the distinguished departments' share of doctorates granted has changed by less than three percentage points from the peak year in number of Ph.D.'s to 1977. From Text Table C these changes, by field, are found to be: mathematics, 2.9%; physics, -0.7%; chemistry, 0.6%; electrical engineering, 1.6%; mechanical engineering, -1.3%; zoology, 1.8%; entomology, -1.0%; geography, -1.7%; German, 2.8%; and classics, -7.2%.

¹ Roose, Kenneth D. and Charles J. Andersen, A Rating of Graduate Programs, American Council on Education, Washington, D. C., 1970.

TEXT TABLE C

Trends in Doctorates Granted by Departments Grouped by Roose-Andersen Ratings for Selected Fields, 1967-1977

Roose-Andersen Rating	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977
Mathematics																						
Total	830	970	1305	1224	1232	1201	1232	1209	1147	1003	959	237	312	200	341	350	356	33	269	271	259	264
4.00 - 5.00 ¹	219	247	241	283	265	262	251	262	277	243	228	33	21	20	34	35	37	33	29	26	25	27
3.00 - 3.99 ²	204	239	244	288	294	295	307	261	257	216	193	66	158	99	20	182	90	139	80	64	63	75
Other Rated	386	448	499	566	565	564	534	527	467	395	396	123	152	125	83	165	216	174	13	144	127	125
Not Rated	21	36	81	87	114	154	130	159	146	149	143	9	21	21	33	32	33	40	43	38	41	35
Physics																						
Total	1248	1334	1342	1544	1624	1505	1457	1204	1167	1026	1029	146	154	176	170	218	192	184	173	170	146	153
4.00 - 5.00	386	342	334	344	396	341	331	273	201	251	244	19	13	9	3	15	11	11	12	10	10	9
3.00 - 3.99	281	336	311	382	375	315	317	274	236	226	218	59	32	96	96	39	31	92	83	80	63	56
Other Rated	544	590	605	717	707	657	628	511	515	488	417	44	39	55	63	76	30	52	53	57	46	56
Not Rated	37	66	92	101	146	162	181	146	155	161	150	74	20	10	20	28	27	29	30	23	23	26
Chemistry																						
Total	1774	1797	1962	2238	222	2017	1855	1706	1775	1624	1570	75	87	114	137	158	177	215	193	87	165	155
4.00 - 5.00	346	349	372	378	365	323	300	321	322	359	275	3	5	6	14	12	7	19	19	15	19	15
3.00 - 3.99	519	557	545	650	644	567	499	450	470	416	416	41	50	60	64	73	34	82	85	76	57	56
Other Rated	794	749	882	1003	935	881	817	770	722	663	649	37	30	46	50	63	52	74	57	55	53	48
Not Rated	115	142	163	207	268	240	239	245	262	231	230	0	2	8	9	10	24	42	39	41	36	38
Electrical Engineering																						
Total	675	740	824	856	862	815	787	678	612	591	544	153	119	139	139	160	173	196	169	164	176	140
4.00 - 5.00	143	123	145	125	141	151	126	123	117	110	98	29	32	36	44	36	40	43	37	35	32	35
3.00 - 3.99	204	246	270	285	249	224	203	196	176	177	152	36	39	53	46	63	55	62	49	52	43	45
Other Rated	164	213	230	246	268	231	240	192	160	157	139	38	42	48	44	43	57	62	50	54	56	34
Not Rated	159	158	179	199	204	209	213	161	159	147	155	0	6	12	5	13	2	23	23	23	42	26
Mechanical Engineering																						
Total	537	595	642	635	613	616	547	564	487	417	372	71	103	82	86	100	106	85	88	93	79	60
4.00 - 5.00	93	77	98	77	87	70	64	71	75	75	52	16	19	18	20	26	20	10	19	15	12	7
3.00 - 3.99	147	200	171	186	172	188	141	125	128	93	96	23	56	40	45	40	46	43	36	38	34	27
Other Rated	269	270	315	306	262	264	242	256	192	174	159	20	21	24	20	32	36	28	29	32	23	19
Not Rated	28	48	58	66	92	94	94	91	92	80	65	7	7	0	6	2	4	4	4	8	10	7
Classics																						
Total	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132
4.00 - 5.00	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132
3.00 - 3.99	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132
Other Rated	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132
Not Rated	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132

¹ "Distinguished" programs.² "Strong" programs.

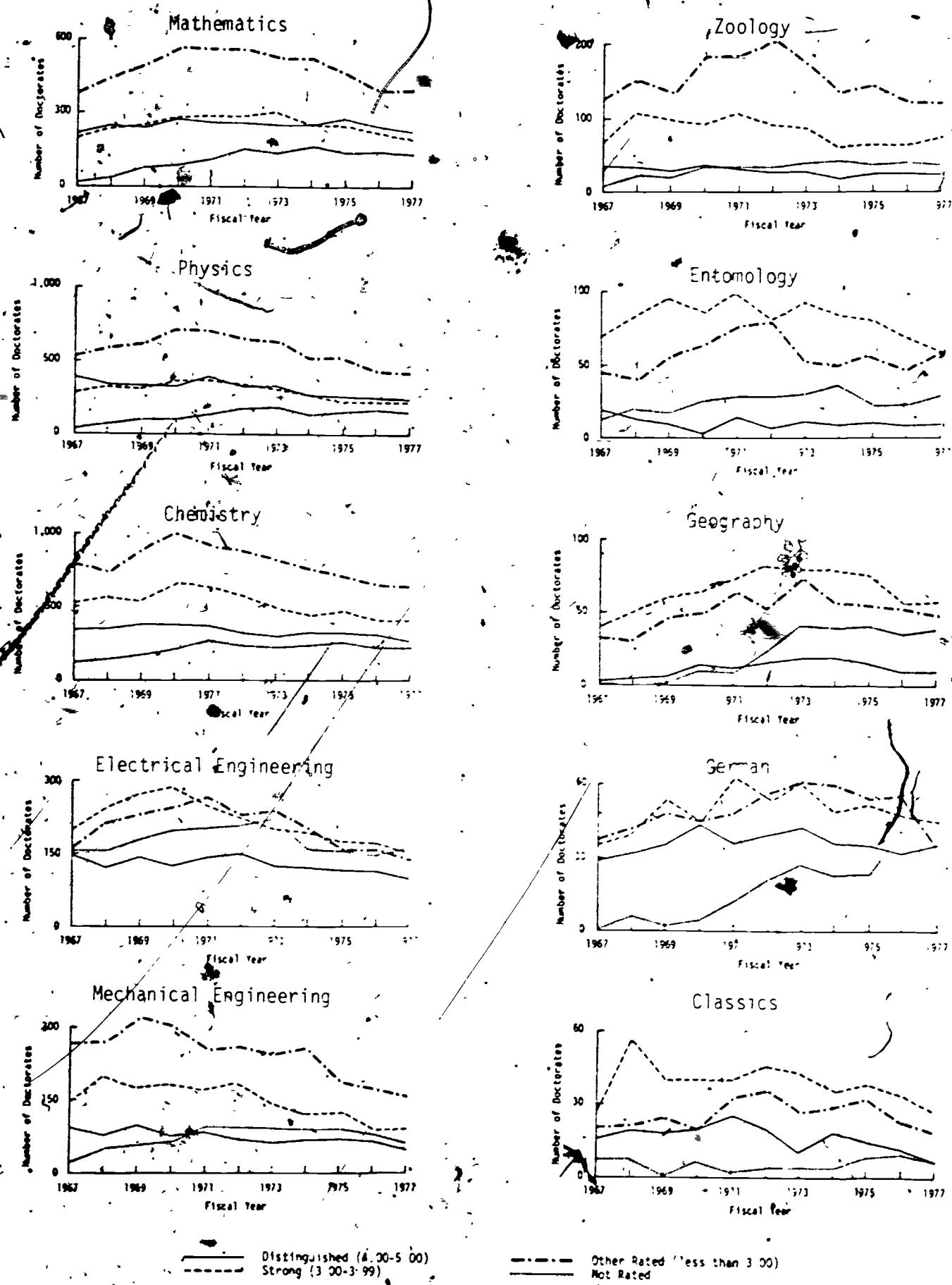


FIGURE 4

Trends in Doctorates Granted by Departments Grouped by Roose-Andersen Ratings for Selected Fields, 1967-1977

EXPLANATION OF FIVE BASIC TABLES

TABLE 1. Number of Doctorate Recipients by Sex and Subfield, FY 1977

TABLE 1A. Number of Doctorate Recipients by Citizenship, Racial/Ethnic Group and Subfield, FY 1977

TABLE 2. Statistical Profile of Doctorate Recipients by Sex and by Field of Doctorate, FY 1977 (three tables)

TABLE 3. Percentage of FY 1977 Doctorate Recipients by Sources of Support in Graduate School, by Sex and Summary Field

TABLE 4. Number of FY 1977 Doctorate Recipients by Sex, State of Doctoral Institution, and Summary Field

TABLE 5. Statistical Profile of Doctorate Recipients by Racial or Ethnic Group and U.S. Citizenship Status, FY 1977

Table titles and headings are generally self-explanatory, but a few terms need special definition or explanation. The survey questionnaire is reproduced on p. 30.

Table 1A:

This table is being included for the first time in response to numerous requests for data about the availability of minority Ph.D.'s.

Table 2:

There are three 2-page tables; one contains data about all doctorate recipients of FY 1977 and the other two present data by sex. This table provides data by field and also by broader summary field. Refer to inside back cover for the codes included in each broad field and the Specialties List on page 32 for the codes and the names of each subfield. The doctoral fields that head Table 2 are the same as those in the 1972-76 reports except for the Environmental Sciences field. For 1972-76 the Environmental Sciences were included in the Life Sciences summary field. The Environmental Sciences are now incorporated in the Earth, Environmental and Marine Sciences field which is included in the broader summary field of Physical Sciences.

"Median Age at Doctorate" --One-half received the doctorate at this age or younger.

"Percent with Master's" --This indicates the percentage of doctorate recipients in a field who received a master's degree in any field before

taking the doctorate.

"Median Time Lapse" --Total Time refers to total calendar time elapsed between year of baccalaureate and year of doctorate; Registered Time refers to the total time registered in a university between baccalaureate and doctorate. Postgraduation plans of the doctorate recipients are grouped as: Postdoctoral study (fellowship, research associateship, traineeship, other), Employment (educational institution, industry, etc.), or Unknown. The sum of the columns of percentages totals 100% with allowance for rounding. For example, 4.2% of all the engineers plan to go to postdoctoral fellowships, 9.1% to research associateships, 0.8% to traineeships, 0.6% plan on some other form of postdoctoral study support, 78.8% plan on employment and 6.3% did not indicate their postgraduation plans. The percentages listed by type of employer (educational institution, industry, etc.) total to the 78.8% planning on employment.

Four lines of data, first included in the 1974 report, distinguish between individual's who have definite postgraduation plans (item S: "Have signed contract or made definite commitment" in the survey questionnaire, and those who are still seeking employment or postdoctoral study (item S: negotiating, seeking, or other). These four lines when added to the prior line "status unknown" total 100%. The two lines for definite postdoctoral study and seeking postdoctoral study add to the total percentage planning study and the two lines for definite employment and seeking employment add to the total percentage planning employment.

Percentages showing the distribution of doctorate recipients by work activity and by region of employment are based on those who have a definite employment commitment. They exclude those still seeking employment and those planning postdoctoral study as described in the categories above. These data differ from Summary Reports prior to 1974 which included all individuals planning on employment, i.e., those seeking as well as those having definite employment.

Table 3:

Data in Table 3 describe sources of financial support during graduate school. The question was answered by 29,999 (94.7%) of the FY 1977 doctorate recipients. The data in the table should be interpreted as follows: 285 male doctorate recipients in the physical sciences reported financial support from NSF fellowships during graduate school. This number is 7.6% of the male physical sciences doctorates who answered the question, and it is 33.7% of the males in all fields who reported NSF fellowship support. Since students indicate multiple sources of support, the vertical percentages sum to more than 100%.

The 1977 data on sources of support are not comparable with data shown in Table 3 in earlier years because of a change in item P in the survey questionnaire. In previous years, the question was worded: "Please, check each source from which you received some support during graduate study. Check as many sources as apply." In 1977 the question was modified to request indication of primary and secondary sources of support in addition to all other sources. It appears that many respondents who used the new form provided information only on primary and secondary sources of support so that almost every percentage in Table 3 is lower for 1977 than for 1976.

There is some evidence for this inference since data are available for 11,674 (37%) of the respondents who used the old forms in 1977. Of those who used the new forms, 52% showed only 1 or 2 sources of support whereas only 36% of those reporting on the old forms showed only 1 or 2 sources of support. A version of Table 3 using only the responses on the old forms and another version based only on the new form have been prepared. These tables are available from the Commission on Human Resources on request. The percentages of doctorates receiving all forms of support are generally greater in the table based on old forms. Table 3 is included in the Summary Report this year, even though there is ambiguity concerning the numbers in the report, because the table still provides useful information.

There is no reason to question the relative position of the spaced numbers, e.g., the field with the largest number of Ph.D.'s with support from

NSF fellowships was the physical sciences and the source of support most frequently cited by Ph.D.'s in the physical sciences was a teaching assistantship.

Table 4:

Table 4 shows the number of persons receiving a doctorate from universities in each of the 50 states, the District of Columbia and Puerto Rico.

Table 5:

The 1973 Survey Report was the first to include data for racial and ethnic groups. The tables in that report stimulated many requests for more detailed data by individual racial or ethnic group. Such data are provided in Table 5, first included in the 1974 Summary Report. Table 5 contains data by racial or ethnic group and by U.S. citizenship status for selected variables from Tables 2 and 3. Comparisons between the 1973 data and data for 1976-76 are somewhat tenuous because of the large number of cases (8,692) for which racial or ethnic data were unavailable in 1973.

In 1977, item H on racial or ethnic group in the survey questionnaire was revised to coincide with the question format recommended by the Federal Interagency Committee on Education and adopted by the Office of Management and Budget for use in federally sponsored surveys. The Puerto Rican and Chicano groups which were previously reported separately are now combined in the Hispanic group. The Hispanic group may now include whites and Blacks of Hispanic origin who under the earlier classification system would have classified themselves as white, Black or Other. In addition, the Asian group (formerly called Oriental) has been clearly defined to include Pacific Islanders and persons with origins in the Indian Subcontinent. Some Pacific Islanders may have classified themselves as 'Other' in earlier years and persons with origins in the Indian Subcontinent were included in the white group on the prior form and earlier may have classified themselves as 'Other'. These changes in categories can affect the comparability of the data series for all the racial-ethnic groups in the report.

TABLE 1
NUMBER OF DOCTORATE RECIPIENTS, BY SEX AND SUBFIELDS FY 1979

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES			SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	MEN	WOMEN	TOTAL		MEN	WOMEN	TOTAL
TOTAL ALL FIELDS	23822	7855	31677	ENGINEERING	2567	74	2641
PHYSICAL SCIENCES	3538	931	4469	AERONAUTICAL AND ASTRONAUTICAL	112	—	112
MATHEMATICS	831	128	959	AGRICULTURAL	23	—	23
ALGEBRA	—	17	88	BIOMEDICAL	75	—	75
ANALYSIS AND FUNCTIONAL ANALYSIS	134	18	152	CIVIL	261	—	261
GEOMETRY	24	6	30	CHEMICAL	297	—	297
LOGIC	13	4	17	CERAMIC	28	—	28
NUMBER THEORY	27	5	32	COMPUTER	112	—	112
PROBABILITY, MATH STATISTICS	138	21	159	ELECTRICAL	452	—	452
TOPOLOGY	63	7	70	ELECTRONICS	80	—	80
COMPUTING THEORY AND PRACTICE	85	13	101	INDUSTRIAL	47	—	47
OPERATIONS RESEARCH	27	5	42	NUCLEAR	103	—	103
APPLIED	104	9	113	ENGINEERING MECHANICS	99	—	99
MATHEMATICS, GENERAL	76	11	87	ENGINEERING PHYSICS	16	—	16
MATHEMATICS, OTHER	54	16	70	MECHANICAL	267	—	267
PHYSICS AND ASTRONOMY	1085	64	1149	METALLURGY AND PHYSICAL MET.	41	—	41
ASTRONOMY	56	7	63	SYSTEMS DESIGN, SYSTEMS SCIENCE	21	—	21
ASTROPHYSICS	59	2	57	OPERATIONS RESEARCH	72	—	72
ATOMIC AND MOLECULAR	125	6	131	FUEL TECH & PETROLEUM	27	—	27
ELECTROMAGNETISM	9	—	9	SANITARY AND ENVIRONMENTAL	44	—	44
ACOUSTICS	12	—	12	MINING	2	—	2
FLUIDS	14	—	14	MATERIALS SCIENCE	121	—	121
PLASMA	21	2	22	ENGINEERING, GENERAL	51	—	51
OPTICS	30	1	31	ENGINEERING, OTHER	92	—	92
THERMAL	7	—	7	SCIENCE	3842	957	5799
ELEMENTARY PARTICLES	229	6	235	BIOLOGICAL SCIENCES	2441	729	3170
NUCLEAR STRUCTURE	65	4	69	BIOCHEMISTRY	473	—	473
SOLID STATE	245	12	257	BIOPHYSICS	121	—	121
PHYSICS, GENERAL	163	10	173	BIOCHEMICAL, BIOSTATISTICS	39	—	39
PHYSICS, OTHER	106	11	117	ANATOMY	23	—	23
CHEMISTRY	1390	183	1573	CYTOLOGY	25	—	25
ANALYTICAL	161	13	174	ENZYMOLOGY	12	—	12
INORGANIC	169	29	198	IMMUNOLOGY	68	—	68
ORGANIC	429	48	477	ESTUARIES	126	—	126
NUCLEAR	18	6	24	ECOLOGY	144	—	144
PHYSICAL	298	41	339	HYDROBIOLOGY	3	—	3
THEORETICAL	33	5	38	MICROBIOLOGY AND BACTERIOLOGY	226	—	226
AGRICULTURAL AND FOOD	6	—	6	PHYSIOLOGY, ANIMAL	264	—	264
PHARMACEUTICAL	45	5	50	PHYSIOLOGY, PLANT	32	—	32
POLYMER	52	2	54	ZOOLOGY	20	—	20
CHEMISTRY, GENERAL	24	22	47	GENETICS	95	—	95
CHEMISTRY, OTHER	55	8	63	ENTOMOLOGY	135	—	135
EARTH, ENVIRONMENTAL & MARINE SCI.	632	59	691	MOLECULAR BIOLOGY	99	—	99
MINERALOGY, PETROLOGY	53	6	59	NUTRITION AND/OR DIETETICS	37	—	37
GEOCHEMISTRY	49	7	56	BIO SCIENCES, GENERAL	122	—	122
STRATIGRAPHY, SEDIMENTATION	40	2	42	BIO SCIENCES, OTHER	110	—	110
PALEONTOLOGY	23	3	26	AGRICULTURAL SCIENCES	861	133	994
STRUCTURAL GEOLGY	21	1	22	AGRICULTURE	114	—	114
GEOPHYSICS (SOLID EARTH)	66	7	73	AGRICULTURAL ECONOMICS	135	—	135
GEOMORPHOL. GLACIAL GEOLGY	22	—	22	ANIMAL HUSBANDRY	24	—	24
HYDROLOGY	23	—	23	FOOD SCIENCE AND TECHNOLOGY	82	—	82
OCEANOGRAPHY	107	5	112	FISH AND WILDLIFE	64	—	64
ATMOSPHERIC PHYSICS AND CHEMISTRY	15	—	15	FORESTRY	130	—	130
ATMOSPHERIC DYNAMICS	29	3	32	HORTICULTURE	56	—	56
ATMOSPHERIC SCIENCES, OTHER	39	6	45	SOILS AND SOIL SCIENCE	71	—	71
ENVIRONMENTAL SCIENCES, GENERAL	24	1	25	ANIMAL SCIENCE AND ANIMAL NUTRITION	97	—	97
ENVIRONMENTAL SCIENCES, OTHER	22	6	28	PHYSIOPATHOLOGY	71	—	71
APPL GEOL, GEOL ENG, ECON, GEOL	18	2	20	AGRICULTURE, GENERAL	15	—	15
FUEL TECHNOL, PETROL ENG	5	—	5	AGRICULTURE, OTHER	72	—	72
EARTH SCIENCES, GENERAL	40	4	44	MEDICAL SCIENCES	506	165	671
EARTH SCIENCES, OTHER	36	6	42	PUBLIC HEALTH AND EPIDEMIOLOGY	65	—	65
				VETERINARY MEDICINE	23	—	23
				HOSPITAL ADMINISTRATION	7	—	7
				NURSING	1	—	1
				PARASITOLOGY	16	—	16
				ENVIRONMENTAL HEALTH	21	—	21
				PATHOLOGY	83	—	83
				PHARMACOLOGY	156	—	156
				PHARMACY	63	—	63
				MEDICAL SCIENCES, GENERAL	19	—	19
				MEDICAL SCIENCES, OTHER	76	—	76

TABLE 3, CONTINUED

SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES			SUBFIELD OF DOCTORATE	NUMBER OF DOCTORATES		
	HEN	WOMEN	TOTAL		HEN	WOMEN	TOTAL
SOCIAL SCIENCES (EXCL PSYCH)	5674	1836	6504	EDUCATION	5629	2554	7463
ANTHROPOLOGY	250	136	386	FOUNDATIONS: SOCIAL, PHILOS	152	78	230
COMMUNICATION	204	83	287	EDUCATIONAL PSYCHOLOGY	284	214	498
SOCIOLOGY	488	237	725	ELEMENTARY EDUCATION, GENERAL	71	116	187
ECONOMICS	738	71	809	SECONDARY EDUCATION, GENERAL	63	56	142
ECONOMETRICS	27	2	29	HIGHER EDUCATION	519	205	724
STATISTICS	31	5	36	ADULT EDUC AND EXTENSION EDUC	125	48	173
DEBRIGRAPHY	128	27	155	EDUCATIONAL MEAS AND STATISTICS	61	27	118
AREA STUDIES	15	3	18	CURRICULAR AND INSTRUCTION	412	143	755
POLITICAL SCIENCE	511	102	613	EDUCATIONAL ADMIN AND SUPERVISION	1182	328	1510
PUBLIC ADMINISTRATION	143	29	172	GUIDANCE, COUNSEL, STUDENT PERSONNEL	438	222	660
INTERNATIONAL RELATIONS	85	11	96	SPECIAL ED (SIRD, HANDICAPPED, ETC)	177	94	324
URBAN AND REGIONAL PLANNING	66	14	79	AV. VISUAL MEDIA	62	14	76
SOCIAL SCIENCES, GENERAL	21	6	27	TEACHING FIELDS	1288	771	2059
SOCIAL SCIENCES, OTHER	89	23	112	AGRICULTURE	24	1	25
PSYCHOLOGY	1879	1081	2960	ART	35	20	55
CLINICAL	582	332	914	BUSINESS	42	23	65
COUNSELING AND GUIDANCE	174	89	263	ENGLISH	26	33	59
DEVELOP AND GERONTOOL	84	119	203	FOREIGN LANGUAGE	17	19	36
EDUCATIONAL	174	59	133	HOME ECONOMICS	1	52	53
SCHOOL PSYCHOLOGY	79	68	147	INDUSTRIAL ARTS	37	2	39
EXPERIMENTAL	239	98	337	MATHEMATICS	64	24	88
COMPARATIVE	14	8	22	MUSIC	67	22	89
PHYSIOLOGICAL	100	32	132	PHYS ED, HEALTH, AND REC	233	106	339
INDUSTRIAL AND PERSONNEL	68	13	81	READING	51	43	94
PERSONALITY	33	26	62	SCIENCE	56	32	88
PSYCHOMETRICS	15	4	19	SOCIAL SCIENCE	32	17	49
SOCIAL	132	69	201	SPEECH	8	6	14
PSYCHOLOGY, GENERAL	159	102	261	VOCATIONAL	123	46	211
PSYCHOLOGY, OTHER	126	59	185	OTHER TEACHING FIELDS	20	38	58
HUMANITIES	2303	1456	3559	EDUCATION, GENERAL	252	154	406
ART, HISTORY AND CRITICISM	69	83	152	EDUCATION, OTHER	107	109	216
HISTORY, AMERICAN	280	62	342	24	12	36	
HISTORY, EUROPEAN	197	64	261				
HISTORY, OTHER	244	85	329				
HISTORY AND PHILOSOPHY OF SCIENCE	24	5	29				
AMERICAN STUDIES	52	39	91				
THEATRE AND THEATRE CRITICISM	64	21	85				
MUSIC	301	103	404				
SPEECH AS A DRAMATIC ART	37	24	61				
ARCHEOLOGY	15	8	23				
RELIGION	150	25	175				
PHILOSOPHY	266	63	326				
LINGUISTICS	117	73	190				
COMPARATIVE LITERATURE	76	75	151				
HUMANITIES, GENERAL	11	10	21				
HUMANITIES, OTHER	25	24	49				
LANGUAGES AND LITERATURE	975	892	1867				
AMERICAN	130	92	222				
ENGLISH	460	397	857				
GERMAN	68	72	140				
RUSSIAN	32	24	56				
FRENCH	61	150	211				
SPANISH AND PORTUGUESE	99	100	199				
ITALIAN	12	10	22				
CLASSICAL	37	23	60				
OTHER LANGUAGES	76	24	100				
PROFESSIONAL FIELDS	1032	323	1355				
THEOLOGY	144	11	155				
BUSINESS ADMINISTRATION	627	40	667				
HOME ECONOMICS	13	63	76				
JOURNALISM	15	3	18				
SPEECH AND HEARING SCIENCES	75	71	146				
LAW, JURISPRUDENCE	25	2	27				
SOCIAL WORK	93	71	164				
LIBRARY AND ARCHIVAL SCIENCE	31	36	67				
PROFESSIONAL FIELDS, OTHER	14	6	20				

SOURCE: NRC, Commission on Human Resources, Doctorate Records File

TABLE 1A
NUMBER OF DOCTORATE RECIPIENTS BY CITIZENSHIP, RACIAL/ETHNIC GROUP AND DISCIPLINE, BY 1977

SUBFIELD OF DOCTORATE	TOTAL DOCTORATES	NON-U.S. CITIZENS	U.S. CITIZENS AND NON-CITIZENS IN THE PERMANENT U.S. POPULATION					OTHER
			TEMPORARY VISAS	TOTAL	AMERICAN INDIAN	ASIAN	BLACK	
TOTAL ALL FIELDS	21622	3667	2722	212	522	142	42	2822
PHYSICAL SCIENCES	4365	777	2522	12	222	32	22	2222
MATHEMATICS	550	170	70	5	2	1	1	52
ALGEBRA	66	12	7	1	1	1	1	52
ANALYSIS AND FUNCTIONAL ANALYSIS	152	33	113	2	2	1	1	122
GEOMETRY	25	7	3	1	1	1	1	22
LOGIC	27	4	1	1	1	1	1	22
NUMBER THEORY	22	4	22	1	1	1	1	22
PROBABILITY, MATHEMATICAL STATISTICS	152	21	122	1	1	1	1	122
TOPOLOGY	70	12	8	1	1	1	1	62
COMPUTING THEORY AND PRACTICE	72	12	8	1	1	1	1	62
OPERATIONS RESEARCH	42	12	11	1	1	1	1	32
APPLIED	111	17	44	1	1	1	1	92
MATHEMATICS, GENERAL	89	16	54	1	1	1	1	72
MATHEMATICS, OTHER	70	6	52	1	1	1	1	62
PHYSICS AND ASTRONOMY	1495	268	914	1	1	1	1	1222
ASTRONOMY	62	2	1	1	1	1	1	52
ASTROPHYSICS	57	1	1	1	1	1	1	52
ATOMIC AND MOLECULAR	102	15	93	1	1	1	1	92
ELECTROMAGNETISM	25	3	2	1	1	1	1	22
ACOUSTICS	17	3	2	1	1	1	1	12
FLUIDS	14	3	2	1	1	1	1	12
PLASMA	12	3	2	1	1	1	1	12
OPTICS	31	2	2	1	1	1	1	22
THERMAL	14	2	2	1	1	1	1	12
ELEMENTARY PARTICLES	158	28	12	1	1	1	1	122
NUCLEAR STRUCTURE	98	14	72	1	1	1	1	72
SOLID STATE	237	57	200	1	1	1	1	122
PHYSICS, GENERAL	173	41	12	1	1	1	1	122
PHYSICS, OTHER	117	22	95	1	1	1	1	92
CHEMISTRY	1570	244	1142	5	22	1	1	1222
ANALYTICAL	124	38	105	1	1	1	1	122
INORGANIC	156	28	122	1	1	1	1	122
ORGANIC	477	65	428	2	2	1	1	322
NUCLEAR	24	2	2	1	1	1	1	22
PHYSICAL	325	43	264	1	1	1	1	222
THEORETICAL	26	3	2	1	1	1	1	22
AGRICULTURE AND FOOD	1	1	1	1	1	1	1	1
PHARMACEUTICAL	58	1	1	1	1	1	1	52
POLYMER	56	10	42	1	1	1	1	42
CHEMISTRY, GENERAL	147	36	35	1	1	1	1	32
CHEMISTRY, OTHER	62	6	50	1	1	1	1	52
EARTH, ENVIRONMENTAL AND MARINE SCIENCES	59	107	572	2	2	1	1	52
MINERALOGY, PETROLOGY	50	4	54	1	1	1	1	52
GEOCHEMISTRY	51	1	52	1	1	1	1	52
STRATIGRAPHY, SEDIMENTATION	42	10	32	1	1	1	1	32
PALEONTOLOGY	24	2	22	1	1	1	1	22
STRUCTURAL GEOL.	22	3	19	1	1	1	1	22
GEOPHYSICS (SOLID EARTH)	75	14	56	1	1	1	1	52
GEOMORPHOL., GLACIAL GEOL.	22	1	21	1	1	1	1	22
HYDROLOGY	23	9	15	1	1	1	1	22
OCEANOGRAPHY	112	12	44	1	1	1	1	42
ATMOSPHERIC PHYSICS AND CHEMISTRY	15	1	14	1	1	1	1	12
ATMOSPHERIC DYNAMICS	32	6	35	1	1	1	1	22
ATMOSPHERIC SCIENCES, OTHER	45	8	22	1	1	1	1	22
ENVIRONMENTAL SCIENCES, GENERAL	25	2	22	1	1	1	1	22
ENVIRONMENTAL SCIENCES, OTHER	26	2	25	1	1	1	1	22
APPL GEOL., GEOL ENG., ECON-GEOL	20	3	17	1	1	1	1	15
FUEL TECHNOL., PETROLEUM	5	2	1	1	1	1	1	5
EARTH SCIENCES, GENERAL	44	6	34	1	1	1	1	22
EARTH SCIENCES, OTHER	42	10	30	1	1	1	1	22

1. For more detailed explanations of racial/ethnic groups, see item 1 in quest. scheme on page 35.
 2. See definition on page 35. The definition used in 1972 survey is too consistent with the guidance received from DDCB subsequent to this survey, which defines Hispanic more broadly as persons who exclude persons from Spanish and to include only those persons from Central and South America and one of Spain, Portugal, Mexico, Puerto Rico, Cuba, and the Dominican Republic. Persons from Brazil, Uruguay, Surinam, Trinidad, and Belize would be classified according to the race and would not be included in the Hispanic category.

3. Includes 854 individuals who did not report their race or ethnic group at time of doctorate.

DATA CONTINUED

SUBFIELD OF DOCTORATE	TOTAL U.S. CITIZENS		U.S. CITIZENS AND NON-CIT. WITH PERMANENT RES.						OTHER C.	
	TOTAL	TEMP.	AMERICAN			BLACK			HISPANIC	WHITE
			TOTAL	ASIAN	BLACK	ASIAN	BLACK	ASIAN		
ENGINEERING	2661	273	1253	42	268	15	22	22	252	25
AERONAUTICAL AND ASTROAERONAUTICAL	115	45	65	6	1	1	2	66	1	1
AGRICULTURAL	33	15	17	1	1	1	1	16	1	1
BIOMEDICAL	75	8	56	1	1	1	1	55	1	1
CIVIL	265	106	157	1	25	1	4	120	1	1
CHEMICAL	306	97	224	1	39	1	4	146	1	1
CERAMIC	26	4	24	1	1	1	1	22	1	1
COMPUTER	122	30	52	1	1	1	1	235	1	1
ELECTRICAL	461	117	323	2	47	5	1	63	2	2
ELECTRONICS	83	24	59	1	12	1	1	37	1	1
INDUSTRIAL	73	22	48	1	5	1	2	37	1	1
NUCLEAR	105	23	77	1	11	1	1	63	1	1
ENGINEERING MECHANICS	102	28	73	1	16	1	1	66	1	1
ENGINEERING PHYSICS	19	1	17	1	1	1	1	16	1	1
MECHANICAL	270	80	176	1	1	1	1	164	1	1
METALLURGY AND MATERIALS SCI.	92	27	54	1	6	1	1	52	1	1
SYSTEMS DESIGN, SYSTEMS SCIENCE	71	22	47	1	5	1	1	39	1	1
OPERATIONS RESEARCH	75	21	51	1	3	1	1	37	1	1
FUEL TECH, PETROLEUM	18	4	5	2	2	1	1	3	1	1
SANITARY AND ENVIRONMENTAL	65	14	52	1	3	1	1	45	1	1
MINING	2	1	1	1	1	1	1	1	1	1
MATERIALS SCIENCE	127	37	83	1	17	1	1	61	1	1
ENGINEERING, GENERAL	33	10	22	1	1	1	1	20	1	1
ENGINEERING, OTHER	95	29	61	1	1	1	1	66	1	1
LIFE SCIENCES	262	246	2556	32	464	18	22	2524	48	48
BIOLOGICAL SCIENCES	172	298	2783	29	120	15	24	2458	12	12
BIOCHEMISTRY	608	54	535	4	13	1	5	457	21	21
BIOPHYSICS	142	18	119	2	2	1	1	34	1	1
BIOSTATISTICS	52	10	42	1	3	1	1	35	1	1
ANATOMY	116	6	102	1	2	1	1	34	1	1
CYTOLGY	37	1	34	1	1	1	1	31	1	1
EMBRYOLOGY	19	1	14	1	1	1	1	18	1	1
IMMUNOLOGY	121	5	50	1	7	1	1	80	2	2
BOTANY	158	12	145	2	3	1	1	31	1	1
ECOLOGY	163	11	152	3	1	1	1	16	1	1
HYDROBIOLOGY	44	1	14	1	1	1	1	28	1	1
MICROBIOLOGY AND BACTERIOLOGY	512	22	482	1	12	1	2	251	12	12
PHYSIOLOGY, ANIMAL	319	31	285	2	13	1	2	255	12	12
PHYSIOLOGY, PLANT	63	13	32	1	1	1	1	27	1	1
ZOOLOGY	256	13	236	3	3	1	1	217	12	12
GENETICS	140	11	125	1	1	1	1	122	1	1
ENTOMOLOGY	153	33	119	3	5	1	1	122	1	1
MOLECULAR BIOLOGY	131	13	116	3	3	1	1	133	1	1
NUTRITION AND/OR DIETETICS	62	22	50	1	1	1	1	33	1	1
BIO SCIENCES, GENERAL	176	11	152	4	2	1	1	133	1	1
BIO SCIENCES, OTHER	152	11	133	2	3	1	1	110	1	1
AGRICULTURAL SCIENCES	924	304	602	4	22	1	1	526	17	17
AGRONOMY	122	50	70	1	3	1	1	51	1	1
AGRICULTURAL ECONOMICS	142	53	57	1	1	1	1	70	1	1
ANIMAL HUSBANDRY	25	7	17	1	1	1	1	16	1	1
FOOD SCIENCE AND TECHNOLOGY	107	44	59	1	1	1	1	55	1	1
FISH AND WILDLIFE	66	5	51	1	1	1	1	57	1	1
FORESTRY	66	11	53	1	2	1	1	47	1	1
HORTICULTURE	60	20	36	1	1	1	1	33	1	1
SOILS AND SOIL SCIENCE	72	37	43	1	1	1	1	27	1	1
ANIMAL SCIENCE AND ANIMAL NUTRITION	101	27	74	1	1	1	1	68	1	1
PHYTOPATHOLOGY	82	25	57	1	2	1	1	53	1	1
AGRICULTURE, GENERAL	6	6	5	1	1	1	1	45	1	1
AGRICULTURE, OTHER	75	22	52	2	3	1	1	45	1	1
MEDICAL SCIENCES	671	54	596	4	40	1	1	512	29	29
PUBLIC HEALTH AND EPIDEMIOLOGY	106	17	87	1	1	1	1	72	1	1
VETERINARY MEDICINE	24	6	18	1	2	1	1	15	1	1
HOSPITAL ADMINISTRATION	9	1	1	1	1	1	1	7	1	1
NURSING	32	1	32	1	1	1	1	20	1	1
PARASITOLOGY	17	2	15	1	1	1	1	14	1	1
ENVIRONMENTAL HEALTH	24	1	22	1	1	1	1	15	1	1
PATHOLOGY	99	8	83	1	5	1	1	71	1	1
PHARMACOLOGY	196	11	123	3	12	1	1	163	1	1
PHARMACY	49	6	43	1	14	1	1	26	1	1
MEDICAL SCIENCES, GENERAL	18	1	17	1	2	1	1	8	1	1
MEDICAL SCIENCES, OTHER	97	7	88	2	1	1	1	51	1	1

TABLE A CONTINUED

SUBFIELD OF DOCTORATE	NON-U.S. CITIZENS		U.S. CITIZENS AND NON-U.S. WITH PERMANENT VISAS		RACIAL/ETHNIC GROUPS				
	TOTAL DOCTORATES	TEMP. VISAS	TOTAL	AMERICAN INDIAN	ASIAN	BLACK	HISPANIC	WHITE	OTHER & UNKNOWN
SOCIAL SCIENCES (EXCL. PSYCH)									
ANTHROPOLOGY	286	25	351	3	2	1	8	313	22
COMMUNICATIONS	267	11	273	2	4	7	6	241	13
SOCIOLOGY	725	66	645	8	15	32	13	447	24
ECONOMICS	805	200	551	1	21	45	2	521	27
ECONOMETRICS	29	11	18		2	1		12	3
STATISTICS	36	18	18		1			16	4
GEOGRAPHY	155	23	128		1	3	3	112	14
AREA STUDIES	18	1	16		1			14	2
POLITICAL SCIENCE	613	67	553	4	16	33	5	445	28
PUBLIC ADMINISTRATION	172	13	140	2	2	4	4	113	11
INTERNATIONAL RELATIONS	56	15	81	2		6	2	54	16
URBAN AND REGIONAL PLANNING	79	20	57	1	2	4		44	1
SOCIAL SCIENCES, GENERAL	27	4	22		2			16	1
SOCIAL SCIENCES, OTHER	112	21	67	2			1	75	5
PSYCHOLOGY	2900	71	2755	22	39	90	34	1480	92
CLINICAL	14	7	925	6	5	12	15	815	5
COUNSELING AND GUIDANCE	263	6	255	4	3	7	4	228	6
DEVELOP. AND REFORCER	203	5	198	1	4	1	1	155	4
EDUCATIONAL	192	7	125	1	1	2	3	117	1
SCHOOL PSYCHOLOGY	147		142			2	2	132	1
EXPERIMENTAL	337	16	321	1	2	6	1	166	1
COMPARATIVE	22		22			1		20	1
PHYSIOLOGICAL	132	6	126	1	2	1	1	115	5
INDUSTRIAL AND PERSONNEL	81	3	76	1	1	2	1	74	2
PERSONALITY	62	1	61			2		55	1
PSYCHOMETRICS	19	2	17	1		2		14	1
SOCIAL	201	7	164	1	2	3	1	125	1
PSYCHOLOGY, GENERAL	261	7	189	3	5	8	2	165	284
PSYCHOLOGY, OTHER	85	4	123	1	2	11	2	104	31
HUMANITIES									
ART, HISTORY AND CRITICISM	152	7	127			2		126	7
HISTORY, AMERICAN	342	5	334	2	1	4	6	296	14
HISTORY, EUROPEAN	261	4	256	1	1	2	2	240	12
HISTORY, OTHER	320	30	273	1	9	7	15	213	38
HISTORY AND PHILOSOPHY OF SCIENCE	29	1	28					27	1
AMERICAN STUDIES	91		89			8	1	80	1
THEATRE AND THEATRE CRITICISM	85	10	75	1	1	1	1	70	2
MUSIC	404	16	365	5	2	14	3	324	16
SPEECH AS A DRAMATIC ART	61		59			2	1	56	1
PHILOLOGY	23	1	22	1		2	1	22	1
RELIGION	175	12	157	1	2	2	1	145	1
PHILOSOPHY	329	6	317	4	5	6	1	284	17
LINGUISTICS	190	29	145		8	6	7	118	15
COMPARATIVE LITERATURE	151	8	135	1	4	1	14	104	6
HUMANITIES, GENERAL	21		21					21	1
HUMANITIES, OTHER	49	1	47			1	2	41	2
LANGUAGES AND LITERATURE									
AMERICAN	222	5	217	2	1	8	2	196	8
ENGLISH	857	23	812	4	9	21	7	730	41
GERMAN	142	3	134	1		4		123	5
RUSSIAN	56	5	51		1			48	2
FRENCH	211	7	202	1		8	3	185	5
SPANISH AND PORTUGUESE	199	9	186	1		3	56	115	11
ITALIAN	22	6	14	1				12	1
CLASSICAL	60	3	57			1		54	2
OTHER LANGUAGES	100	12	76	1	5	—	1	60	9
PROFESSIONAL FIELDS									
THEOLOGY	155	9	141		4		1	129	7
BUSINESS ADMINISTRATION	667	104	550	2	16	7	4	468	33
HOME ECONOMICS	76	6	70	1	1	3		65	1
JOURNALISM	18	2	15					15	1
SPEECH AND HEARING SCIENCES	146	3	139	2	2	8	1	120	6
LAW, JURISPRUDENCE	27	15	10		1	2	1	6	1
SOCIAL WORK	164	12	151		4	18	7	117	5
LIBRARY AND ARCHIVAL SCIENCE	67	11	55		3	5	1	44	2
PROFESSIONAL FIELDS, OTHER	20	3	16		2	1		13	1

1/ For more detailed explanations of racial/ethnic groups see item 10 on questionnaire on page 30

TABLE A (CONT'D)

SUBFIELD OF DOCTORATE	TOTAL	NON-U.S. CITIZENS VISA	U.S. CITIZENS AND NON-U.S. WITH PERMANENT U.S. FACULTY/ETHNIC GROUP						OTHER CITIZENS
			AMERICAN	INDIAN	ASIAN	BLACK	HISPANIC	WHITE	
EDUCATION	2448	325	2225	52	66	227	252	218	222
FOUNDATIONS: SOCIAL, PHILOS	230	20	205	1	2	16	0	163	7
EDUCATIONAL PSYCHOLOGY	448	24	444	3	4	33	12	307	15
ELEMENTARY EDUCATION, GENERAL	187	7	170	0	2	19	0	149	4
SECONDARY EDUCATION, GENERAL	162	6	134	3	0	10	0	117	4
HIGHER EDUCATION	713	25	681	12	8	94	7	569	21
ADULT EDUC AND EXTENSION EDU	173	16	157	1	1	21	3	128	3
EDUCATIONAL MEAS AND STATISTICS	118	7	109	4	2	0	1	99	3
CURRICULUM AND INSTRUCTION	755	44	707	6	4	53	24	577	22
EDUCATIONAL ADMIN AND SUPERVISION	1510	64	137	10	5	75	34	179	34
GUIDANCE/COUNS, STUDENT PERSONNEL	662	18	57	5	8	75	14	563	9
SPECIAL ED (CLEFTED, HANDICAPPED, ETC)	324	2	320	4	2	24	4	277	5
AUDIO-VISUAL MEDIA	70	12	68	1	1	1	1	61	3
TEACHING FIELDS	2059	123	1601	17	27	176	32	1479	70
AGRICULTURE	25	2	20	0	0	0	0	20	1
ART	55	2	51	0	0	0	0	45	1
BUSINESS	85	6	58	0	0	0	0	53	1
ENGLISH	69	2	64	0	0	0	0	64	4
FOREIGN LANGUAGE	35	0	28	0	0	0	0	21	1
HOME ECONOMICS	31	1	30	0	1	0	0	25	1
INDUSTRIAL ARTS	30	3	36	0	1	0	0	32	1
MATHEMATICS	98	5	91	1	2	0	0	73	1
MUSIC	89	1	87	0	1	0	0	87	1
PHYS ED, HEALTH, AND REC	333	38	292	3	2	0	0	257	5
READING	134	2	131	2	0	0	0	119	6
SCIENCE	128	0	117	2	0	0	0	91	4
SOCIAL SCIENCE	44	2	47	0	0	0	0	38	2
SPECH	14	1	22	0	0	0	0	12	1
VOCATIONAL	211	4	207	2	0	0	0	181	3
OTHER TEACHING FIELDS	67	1	60	0	0	0	0	42	2
EDUCATION, GENERAL	44	0	36	6	3	43	4	165	25
EDUCATION, OTHER	214	12	201	1	2	25	0	161	15
OTHER AND UNSPECIFIED	55	5	34	0	0	0	0	29	1

SOURCE: NPC, Commission on Human Resources, Doctorate Record, 1982

TABLE 2
STATISTICAL PROFILE OF DOCTORATE RECIPIENTS, BY FIELD OF DOCTORATE, FY 1977
TOTAL ALL DOCTORATES

	FY 1977, TOTAL	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH, ENVIRON- MENT, AND MARINE SCIENCES	PHYSICAL SCIENCES	MATHEMATICS	ENGINEERING	MP. FIELDS	BIOL. MEDICAL SCIENCES	OTHER SCIENCES	BIOLOGICAL SCIENCES	PHYSICAL SCIENCES	AGRICULTURAL SCIENCES	EDUCATION
NUMBER IN FIELD	31672	1149	1520	691	3610	959	2641	701	1765	407	3172	67	526	672
MALE	75.2	94.4	88.5	91.5	91.1	86.7	97.2	92.8	77.6	76.2	77.0	75.4	91.2	78.9
FEMALE	24.8	5.6	11.5	8.5	8.9	13.3	2.8	7.2	22.4	23.8	23.0	24.6	9.8	22.1
U.S. CITIZENSHIP	82.1	72.2	78.8	80.5	76.9	74.0	55.4	68.5	83.6	82.6	83.6	74.8	61.6	78.7
FOREIGN CITIZENSHIP	15.2	25.6	19.4	17.7	21.1	25.4	41.6	29.1	17.4	14.1	13.7	15.8	37.1	18.5
UNKNOWN	2.7	2.2	1.8	1.9	2.0	2.6	2.6	2.4	3.2	2.3	2.7	2.4	1.7	2.4
MARRIED	66.1	61.2	61.4	70.6	63.2	58.6	67.7	66.3	62.9	65.4	64.0	66.3	74.9	62.9
NOT MARRIED	29.5	34.3	35.4	24.9	32.4	36.9	28.5	31.8	32.8	31.6	31.8	24.8	31.1	29.4
UNKNOWN	4.4	4.5	3.2	4.5	3.9	4.5	3.6	4.0	4.1	4.0	4.2	3.6	2.6	3.6
MEDIAN AGE AT DOCTORATE	31.6	29.5	28.4	30.5	29.2	29.1	30.0	29.5	29.0	30.1	29.5	30.4	30.3	30.0
PERCENT WITH BACC IN SAME FIELD AS DOCTORATE	55.5	79.7	67.5	46.3	76.5	76.2	50.0	77.6	77.9	68.2	39.7	51.5	49.3	41.1
PERCENT WITH MASTERS	91.3	66.7	39.6	79.5	58.9	76.7	91.0	72.5	42.0	69.9	50.7	46.1	92.1	44.4
MEDIAN TIME LAPSE FROM BACC TO DOCT														
TOTAL TIME YRS	8.7	7.3	6.3	8.0	6.4	6.9	7.5	7.1	6.5	7.8	7.1	7.3	8.0	7.1
REGISTERED TIME YRS	6.1	6.2	5.2	5.4	5.7	5.8	5.4	5.7	5.5	6.1	5.8	5.7	5.7	5.2
POSTDOCTORAL STUDY PLANS	17.0	46.4	46.0	25.9	42.6	21.0	14.8	27.8	74.1	38.8	56.6	39.0	13.2	47.1
FELLOWSHIP	8.3	14.0	20.0	9.8	16.0	4.5	4.4	10.1	42.0	29.1	36.0	23.4	47.5	28.1
RESEARCH ASSOC	6.6	31.4	25.0	15.9	25.2	6.6	5.1	10.4	22.3	16.7	10.3	7.0	10.5	1.1
TRAINEESHIP	0.8	1.6	0.0	0.6	1.6	1.5	0.8	0.6	2.7	1.2	0.0	0.5	0.5	0.0
CTMR	1.0	0.8	1.1	0.1	0.8	0.9	0.6	0.8	5.2	2.0	0.9	1.9	0.6	3.2
PLANNED EMPLOYMENT AFTER DOCTORATE	75.4	43.0	47.5	68.0	50.1	81.3	78.8	65.2	20.5	54.3	35.4	52.4	61.2	46.7
EDUC. INSTITUTION	49.4	16.5	12.4	27.9	16.9	59.1	22.8	24.9	12.3	38.6	22.9	26.2	45.5	27.7
INDUSTRY/BUSINESS	9.5	13.4	27.8	18.2	21.0	13.0	38.4	26.4	6.2	0.8	6.4	10.3	12.0	6.5
GOVERNMENT	9.2	9.7	4.3	18.4	6.9	6.0	13.6	10.3	2.2	7.2	4.6	9.8	18.2	6.1
NONPROFIT	4.0	1.1	1.1	1.3	1.2	1.1	1.9	1.6	0.6	2.5	1.5	4.6	1.5	2.0
OTHER & UNKNOWN	3.4	2.3	2.0	2.2	2.1	2.0	2.2	2.1	1.1	2.0	1.4	1.6	2.0	2.2
POSTDOCT STATUS UNKN	7.5	10.4	5.4	6.1	7.3	7.6	6.3	7.0	5.5	6.7	6.0	8.0	5.5	6.2
DEFINITE POSTDOCTORAL STUDY	12.2	33.0	36.1	18.0	31.0	6.7	9.1	19.8	61.8	27.7	45.0	31.6	8.3	37.2
SEEKING POSTDOCTORAL STUDY	4.8	12.7	10.1	7.1	10.7	4.6	5.7	8.0	12.2	14.1	11.7	8.0	5.0	9.6
DEFINITE EMPLOYMENT SEEKING EMPLOYMENT	54.1	29.2	36.1	51.8	37.1	56.4	59.3	48.1	14.2	35.6	23.6	38.0	58.3	32.5
EMPLOYMENT ACTIVITY AFTER DOCTORATE	7	33.0	11.2	16.2	13.1	24.9	19.5	17.1	6.3	18.7	11.8	14.0	22.6	4.2
PRIMARY ACTIVITY														
R & D	21.7	56.8	66.8	48.0	58.9	35.1	61.4	56.2	41.9	33.7	36.4	37.9	69.5	41.3
TEACHING	46.0	30.4	20.4	27.7	25.1	52.3	20.7	27.4	36.8	44.0	42.9	34.9	25.6	35.6
ADMINISTRATION	13.1	2.1	1.8	3.6	2.4	1.8	2.7	2.5	4.0	3.6	3.7	8.4	2.4	4.1
PROF. SERVICES	9.8	2.7	2.1	7.3	3.7	3.3	5.2	4.4	7.5	6.7	6.9	8.8	7.1	7.3
OTHER	2.2	2.1	1.2	4.7	2.5	2.0	2.6	2.4	1.2	2.6	2.1	2.3	3.0	2.5
ACTIVITY UNKNOWN	7.3	6.0	7.7	8.7	7.5	5.4	7.4	7.1	8.7	7.5	7.9	7.7	12.4	9.4
SECONDARY ACTIVITY														
R & D	25.7	19.0	12.6	26.5	18.3	38.6	18.4	21.6	20.2	30.6	30.2	27.6	21.3	26.7
TEACHING	9.8	5.1	3.5	6.7	4.8	17.6	8.0	8.3	15.0	11.3	12.5	15.3	18.1	15.1
ADMINISTRATION	8.6	6.5	10.5	10.6	9.5	3.9	7.9	7.9	12.3	8.1	9.5	10.3	6.5	8.6
PROF. SERVICES	6.2	2.1	2.8	5.6	3.4	3.1	5.6	4.4	4.0	3.8	3.9	8.0	4.6	4.6
OTHER	1.7	1.6	1.2	1.4	0.6	0.2	1.3	0.9	1.2	0.2	0.5	1.1	0.6	0.6
NO SECONDARY ACTIVITY	40.6	60.7	62.6	40.5	55.9	31.2	51.3	49.8	29.6	38.5	35.5	24.9	36.0	34.7
UNKNOWN	7.3	6.0	7.2	8.7	7.5	5.4	7.4	7.1	8.7	7.5	7.9	7.7	12.4	9.4
REGION OF EMPLOYMENT														
AFTER DOCTORATE	7	6.5	6.3	5.6	6.2	7.6	5.7	6.2	4.7	6.9	6.1	6.1	1.9	4.6
NEW ENGLAND	6.5	6.5	6.3	5.6	6.2	7.6	5.7	6.2	4.7	6.9	6.1	6.1	1.9	4.6
MIDDLE ATLANTIC	14.6	14.6	24.0	9.2	17.3	16.3	16.9	17.0	15.0	9.5	11.2	12.6	5.6	9.5
EAST NO. CENTRAL	14.8	8.6	20.2	8.9	13.6	16.3	12.9	13.8	13.8	9.3	12.6	12.6	9.6	10.7
WEST NO. CENTRAL	6.7	3.0	5.1	3.6	4.1	4.6	4.0	6.1	6.7	6.0	6.3	8.7	7.3	7.3
SOUTH ATLANTIC	16.5	18.5	12.5	15.9	15.0	17.0	12.3	14.1	18.6	17.9	18.2	22.2	14.1	17.4
EAST SO. CENTRAL	4.9	2.4	3.9	3.9	3.5	3.7	4.9	4.2	4.7	6.3	5.7	2.7	4.1	4.6
WEST SO. CENTRAL	8.1	5.1	7.2	13.1	8.2	7.8	8.4	8.2	6.7	7.5	6.5	10.3	8.2	7.7
MOUNTAIN	5.5	8.6	3.5	13.4	7.7	5.0	6.5	6.7	2.0	4.8	3.9	4.6	5.8	4.6
PACIFIC & INSULAR	10.2	19.3	8.9	12.6	12.7	10.7	13.9	13.0	12.6	13.5	13.2	6.1	9.1	10.6
FOREIGN	8.9	9.8	6.5	12.3	9.0	9.4	11.2	10.1	11.5	15.1	13.9	12.3	30.6	19.5
REGION UNKNOWN	3.3	3.6	1.9	1.4	2.2	1.7	3.4	2.7	5.5	3.2	4.0	3.1	2.6	3.6

1/ Refer to explanatory note on page 12 and the description of doctors' field groupings inside back cover

TABLE 2. CONTINUED
TOTAL ALL DOCTORATES

PSYCHOLOGY	ECONOMICS		ANTHROPOLOGY		SOC. SCI. IN SOC. SCI.		POLIT. SCI.		PUBLIC ADMIN.		INT'L REL.		OTHER SOC. SCI.		SOC. SCI. SCIENCES		TOTAL SCIENCES		HISTORY		LAW, AND ANTHR		LAW, AND LIT.		LITERATURE		HUMANITIES		PROFESSIONAL FIELDS		EDUCATION		TOTAL SOC. SCIENCES		OTHER DR.		UNSPECIFIED DR.	
	2960	838	1111	881	714	6504	18261	961	1079	788	1731	4559	1340	7448	13347	44																						
63.5	91.3	66.4	83.9	77.5	71.9	82.0	77.5	54.7	58.9	58.3	53.7	77.4	65.3	54.0	77.3																							
36.5	8.7	33.6	16.1	22.5	18.1	16.0	22.5	45.3	51.1	31.7	36.3	22.6	24.7	34.0	22.7																							
91.5	67.3	85.9	81.0	80.5	84.8	76.9	90.9	53.0	53.5	87.5	88.8	80.7	91.0	89.2																								
4.5	30.5	12.0	15.3	17.2	11.6	20.3	5.6	5.0	13.0	9.1	8.2	17.2	6.5	6.2	5.2	2.6																						
4.5	2.1	2.2	3.6	2.2	3.4	2.8	3.1	2.0	2.9	3.4	2.6	2.7	2.5	2.5	2.6	2.6																						
58.4	68.1	63.3	66.1	67.9	62.6	64.3	65.1	61.4	60.3	58.3	58.9	71.6	72.8	68.6																								
35.3	28.5	32.9	27.2	27.2	32.1	31.2	29.5	54.4	34.9	38.1	38.1	24.7	23.3	27.1																								
6.3	3.3	2.8	6.7	4.9	5.4	4.4	5.8	4.2	4.8	5.7	5.2	3.7	4.0	4.0	3.4	3.4																						
89.9	30.6	32.5	32.5	52.5	35.9	30.1	32.2	32.3	32.0	32.9	32.9	32.6	36.5	34.6																								
69.6	63.6	56.3	56.9	28.3	58.2	61.3	65.2	80.2	85.2	51.5	52.5	37.8	39.7	47.7																								
75.5	78.0	87.2	87.1	94.4	81.5	72.1	90.2	67.2	65.3	84.7	86.5	93.1	96.2	92.6																								
7.1	7.9	9.1	5.6	9.5	8.0	7.4	9.7	9.7	10.1	10.1	9.9	10.7	12.5	11.3																								
5.5	5.8	6.7	6.3	6.4	5.9	5.7	7.3	7.0	7.2	7.0	7.1	6.2	6.4																									
15.0	3.9	9.6	5.3	3.6	10.4	26.6	7.3	3.6	5.8	5.0	5.2	2.5	3.3	3.9	3.4																							
8.6	1.6	5.9	2.5	1.3	1.6	13.2	4.3	1.6	2.7	2.1	2.5	1.9	2.1	2.1	1.6																							
2.8	2.0	2.7	1.7	1.0	2.3	10.8	1.2	1.5	1.0	1.0	1.0	1.9	1.9	1.9	1.9																							
2.4	.1	.1	.1	.3	1.2	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2																							
1.9	.2	1.0	.9	1.1	1.3	1.6	2.1	1.6	1.5	1.7	1.7	1.2	1.2	1.2	1.2																							
75.6	95.5	83.2	84.1	86.8	81.2	66.1	79.7	85.7	82.6	84.5	83.5	90.4	90.3	88.3																								
35.8	57.5	69.6	57.2	66.9	50.7	34.8	56.4	74.4	71.1	59.6	69.5	68.2	70.5	69.5																								
5.6	9.2	2.9	5.7	4.8	5.8	13.8	2.9	4.2	2.5	3.6	3.3	3.9	2.8	2.8	2.8																							
16.1	46.7	4.6	13.1	7.7	12.9	10.6	6.5	6.5	1.4	2.2	2.2	2.5	2.5	2.5	2.5																							
12.6	2.6	2.0	4.3	3.8	7.5	3.8	3.4	3.4	1.9	5.3	5.3	3.3	3.1	3.1	3.1																							
5.4	4.4	3.2	2.9	3.6	4.5	2.0	6.7	6.8	5.5	5.2	5.1	2.1	2.1	2.1	2.1																							
8.8	5.6	7.2	10.6	9.5	8.4	7.3	3.0	10.8	11.5	10.2	10.2	11.2	11.2	11.2	11.2																							
10.6	2.2	6.2	3.1	2.1	6.8	19.7	3.5	1.7	1.9	2.6	2.5	1.6	1.6	1.6	1.6																							
5.0	1.7	3.4	2.3	1.5	3.6	6.5	3.7	1.8	3.9	2.4	2.4	2.0	2.0	2.0	2.0																							
52.4	74.2	60.6	62.4	63.3	59.2	48.0	66.0	51.4	49.0	55.9	51.6	78.4	86.4	62.6																								
23.2	16.2	22.6	21.7	23.5	22.0	16.1	33.7	33.3	33.6	26.9	32.0	32.0	32.0	32.0	32.0																							
15.0	33.2	19.6	12.5	13.9	18.3	36.9	8.3	2.2	11.6	5.4	4.2	7.2	4.0	5.4	5.4																							
31.9	52.1	67.3	58.4	67.7	69.0	36.3	47.6	81.8	85.0	76.8	72.5	67.1	60.2	54.1	54.1																							
4.6	3.1	3.3	14.2	6.0	5.7	4.2	9.3	5.0	3.1	3.9	5.1	7.2	3.1	3.1	3.1																							
42.8	1.6	2.5	3.3	4.0	18.9	11.3	4.3	2.7	1.3	3.5	3.1	2.5	2.5	2.5	2.5																							
1.2	3.4	.6	4.6	1.3	2.0	2.3	4.2	2.3	2.3	3.6	3.6	2.3	2.3	2.3	2.3																							
4.6	6.3	6.1	9.3	7.1	6.1	7.1	8.1	5.6	5.7	7.1	6.8	6.8	6.8	6.8	6.8																							
29.8	35.0	45.2	35.1	43.4	35.7	26.7	29.2	27.2	34.6	52.3	30.4	35.7	15.5																									
13.5	11.1	8.9	5.6	19.5	10.7	10.6	6.1	3.6	2.6	5.4	4.6	7.4	7.4	5.4	5.4																							
10.9	8.2	7.1	6.9	5.5	8.6	8.3	4.3	7.2	7.0	8.1	7.4	7.4	7.4	7.4	7.4																							
8.4	2.9	1.2	3.1	4.0	3.4	4.6	2.3	2.2	1.6	4.9	3.2	3.2	3.2	3.2	3.2																							
1.9	1.0	2.2	2.2	1.5	1.2	1.2	1.4	2.7	2.7	5.4	4.9	4.9	4.9	4.9	4.9																							
30.0	35.5	30.9	37.8	27.9	31.9	39.3	46.4	51.2	45.9	36.1	44.0	29.1	42.0																									
4.6	6.3	6.1	9.3	7.1	6.1	7.1	8.1	5.6	5.7	7.1	6.8	6.8	6.8	6.8	6.8																							
8.5	9.5	8.3	6.7	3.3	7.8	6.6	8.1	11.5	15.8	8.0	10.1	4.6	5.1																									
10.3	13.7	14.6	15.5	15.0	16.1	15.2	18.1	15.9	17.1	14.7	16.0	11.5	13.2																									
10.3	12.2	12.9	9.1	10.0	14.2	13.5	16.1	14.6	14.5	17.8	16.2	16.4	16.1																									
6.4	4.5	6.4	4.9	6.6	5.7	5.4	5.6	5.9	5.7	7.7	6.6	6.6	6.6																									
15.9	24.6	16.1	27.5	13.9	18.5	16.6	16.7	16.8	12.2	11.5	13.8	15.2	17.8																									
9.0	2.7	5.1	4.2	3.8	4.4	4.6	5.4	5.4	5.8	3.1	4.1	4.6	7.2	5.7																								
7.6	3.5	8.5	6.0	6.6	6.8	7.5	6.6	5.9																														

TABLE 2
STATISTICAL PROFILE OF DOCTORATE RECIPIENTS BY FIELD OF DOCTORATE, FY 1977/1

DOCTORATES: MEN

	FY 1977 TOTAL	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH, ENVIRON- MENT, AND MARINE SCIENCES	PHYSICAL SCIENCES	MATHEMATICS	ENGINEERING	EMP. FIELDS	BASIC MEDICAL SCIENCES	OTHER SCIENCES	BIOSCIENCES	MEDICAL SCIENCES	AGRICULTURAL SCIENCES	LIFE SCIENCES
TOTAL MALE	23827	1085	1390	632	3107	831	2567	6505	1386	1953	2443	506	961	3810
MALE AS A PERCENT OF TOTAL DOCTORATES	75.2	94.4	88.5	91.5	91.1	86.7	97.2	92.8	77.6	79.2	77.0	75.4	93.2	79.9
U.S. CITIZENSHIP %	80.0	72.7	79.7	80.5	77.4	74.6	55.6	68.4	83.5	83.6	78.3	61.6	77.9	
FOREIGN CITIZENSHIP %	17.2	25.1	18.3	17.4	20.5	22.9	41.6	29.1	13.3	14.1	13.7	15.0	36.0	19.6
UNKNOWN %	2.7	2.2	1.9	2.1	2.1	2.8	2.9	2.5	3.1	2.3	2.7	2.8	1.5	2.5
MARRIED %	70.3	60.1	62.6	72.3	63.9	58.8	67.7	64.8	66.7	70.1	68.2	72.1	79.4	71.2
NOT MARRIED %	25.2	34.7	34.2	22.9	32.1	36.6	28.4	31.2	29.1	25.7	27.7	23.5	17.9	24.9
UNKNOWN %	4.5	4.6	3.2	4.7	4.0	4.6	3.9	4.0	4.2	4.2	4.2	4.3	2.7	3.9
MEDIAN AGE AT DOCTORATE	31.3	29.5	28.6	30.7	29.3	29.1	30.0	29.6	28.4	31.5	29.5	30.1	31.4	30.0
PERCENT WITH BACC IN SAME FIELD AS DOCTORATE	56.5	79.8	59.3	45.6	76.6	74.7	81.0	78.1	17.4	68.6	39.5	19.4	61.2	41.8
PERCENT WITH MASTERS	80.1	66.5	39.1	79.1	56.8	75.6	91.1	72.7	42.3	70.5	54.3	54.9	92.5	53.0
MEDIAN TIME LAPSE FROM BACC TO DOCT														
TOTAL TIME YRS	8.4	7.3	6.3	8.1	7.0	6.9	7.5	7.2	6.5	7.6	7.0	7.0	8.2	7.2
REGISTERED TIME YRS	6.0	6.2	5.2	6.0	5.7	5.8	5.6	5.7	5.6	6.0	5.8	5.6	5.5	5.7
POSTDOCTORAL STUDY PLANS %	17.9	46.6	46.4	24.8	42.0	11.4	14.8	27.6	73.6	36.9	57.7	39.7	12.8	45.2
FELLOWSHIP	8.5	14.6	20.4	9.2	15.0	4.8	4.3	10.5	44.7	20.7	34.3	24.7	4.3	26.2
RESEARCH ASSOC	7.4	31.0	24.6	15.5	24.9	4.8	9.1	16.1	22.2	12.2	16.7	9.5	7.5	13.7
TRAINEESHIP	.8	.5	.5	.0	.4	.8	.8	.6	2.8	1.4	2.2	1.2	.6	.7
OTHER	1.3	.6	.1	.2	.7	1.0	.6	.7	5.9	2.6	4.5	4.3	.3	3.5
PLANNED EMPLOYMENT														
AFTER DOCTORATE %	74.9	43.4	48.2	69.1	50.8	81.0	79.5	65.8	21.1	56.2	36.3	52.6	81.6	48.7
EDUC INSTITUTION	46.8	16.8	11.6	28.2	16.8	58.1	22.8	24.4	12.3	37.4	23.2	24.1	45.6	28.4
INDUSTRY/BUSINESS	11.3	13.6	29.1	18.7	21.6	13.6	38.6	27.3	4.7	5.2	4.4	11.9	12.4	7.5
GOVERNMENT	10.0	10.0	4.4	19.0	9.3	6.5	13.7	10.7	2.3	9.3	4.9	6.7	16.5	9.6
NONPROFIT	3.9	1.1	1.1	1.1	1.1	1.1	1.8	1.4	.9	2.6	1.7	5.3	1.3	2.1
OTHER & UNKNOWN	2.9	1.9	2.0	2.2	2.0	1.7	2.1	2.0	.8	2.6	1.6	1.8	3.6	2.1
POSTDOCT STATUS UNKN.	7.2	10.2	5.4	6.0	7.2	7.6	6.2	6.9	5.3	6.9	6.0	7.5	5.6	6.1
DEFINITE POSTDOCTORAL STUDY SEEKING POSTDOCTORAL STUDY	13.1	34.3	35.8	17.7	31.6	7.3	9.1	19.6	62.0	26.2	46.5	31.2	8.1	35.8
DEFINITE EMPLOYMENT SEEKING EMPLOYMENT	55.1	30.1	37.3	53.6	38.1	57.3	59.5	49.0	14.8	37.4	24.6	45.3	59.6	34.5
EMPLOYMENT ACTIVITY AFTER DOCTORATE %														
PRIMARY ACTIVITY														
R & D	24.9	57.5	68.2	49.0	59.7	36.8	61.3	57.0	44.4	35.4	38.5	41.2	49.3	43.1
TEACHING	42.7	30.0	19.1	26.8	24.3	50.4	20.5	26.4	34.1	43.3	40.2	31.9	25.2	33.3
ADMINISTRATION	13.2	2.1	1.7	3.0	2.6	1.7	2.7	2.5	3.9	3.3	3.5	8.3	2.3	3.8
PROF. SERVICES	9.0	2.4	2.3	6.5	3.5	3.6	5.4	4.4	8.3	7.1	7.5	8.3	7.2	7.5
OTHER	2.2	1.8	1.0	5.0	2.4	2.3	2.6	2.5	.5	2.8	2.0	2.5	2.7	2.4
ACTIVITY UNKNOWN	8.0	6.1	7.7	8.8	7.6	5.5	7.5	7.2	8.8	8.1	7.6	12.7	9.9	
SECONDARY ACTIVITY														
R & D	24.9	19.0	11.8	25.7	17.7	37.6	18.3	20.9	29.8	29.4	29.5	27.9	21.4	26.1
TEACHING	9.8	5.2	3.7	7.1	5.1	18.1	8.0	8.4	14.6	11.9	12.8	14.2	17.9	15.0
ADMINISTRATION	8.7	6.7	11.2	10.6	9.8	4.6	8.0	8.1	13.2	8.4	10.0	10.8	6.8	8.9
PROF. SERVICES	6.0	2.1	2.9	5.6	3.5	2.9	5.7	4.5	3.9	4.1	4.0	9.8	4.7	5.2
OTHER	1.6	.6	.2	1.5	.7	.0	1.4	.9	1.5	.0	.5	1.5	.6	.7
NO SECONDARY ACTIVITY	41.1	60.2	62.6	40.7	55.7	31.7	51.1	49.9	28.3	38.2	34.8	27.9	35.9	34.2
UNKNOWN	8.0	6.1	7.7	8.8	7.6	5.5	7.5	7.2	8.8	8.1	8.3	7.8	12.7	9.9
REGION OF EMPLOYMENT														
AFTER DOCTORATE %														
NEW ENGLAND	6.0	6.4	6.2	7.3	6.0	6.9	5.8	6.1	4.9	6.1	5.7	6.4	1.8	4.3
MIDDLE ATLANTIC	14.3	4.7	23.7	9.4	17.1	16.4	16.7	16.8	15.6	9.9	11.8	12.3	5.7	9.5
EAST NO CENTRAL	14.4	8.3	19.8	8.6	13.4	15.1	13.1	13.5	14.1	8.4	10.3	12.7	9.6	10.4
WEST NO CENTRAL	6.7	3.1	5.4	3.8	4.3	6.8	4.1	4.3	6.8	5.6	6.0	8.3	8.4	7.3
SOUTH ATLANTIC	16.3	18.3	12.5	16.2	15.2	17.6	12.1	14.1	19.0	16.5	17.3	22.5	13.6	16.7
EAST SD CENTRAL	4.9	2.4	3.9	4.1	3.5	4.0	4.8	4.2	4.6	6.6	5.8	2.0	3.5	4.3
WEST SD CENTRAL	8.1	5.2	7.7	13.6	8.7	7.6	8.3	8.3	5.4	7.3	6.7	10.3	8.6	8.0
MTAINAIN	5.7	8.9	3.9	13.0	7.8	5.5	6.5	6.9	1.5	5.3	4.0	5.4	5.7	4.9
PACIFIC & INSULAR	10.4	19.0	9.1	12.4	12.7	11.1	13.9	13.0	11.7	15.2	14.0	5.4	9.4	10.9
FOREIGN	10.1	10.1	5.8	12.1	8.8	9.5	11.3	10.1	11.7	16.5	14.8	11.3	31.2	20.7
REGION UNKNOWN	3.2	3.7	2.1	1.5	2.4	1.5	3.5	2.8	4.9	2.8	3.4	2.7	3.2	

1/ Refer to explanatory note on page 32 and the description of doctoral fields inside back cover.

TABLE 2. CONTINUED

DOCTORATES: MEN

PSYCHOLOGY	ECONOMICS	ANTHROPOLOGY & SOCIOLOGY	POLITICAL SCIENCE	PUBLIC ADMINISTRATION	INTERNAL REL.	OTHER SOCIAL SCIENCES	SOCIAL SCIENCES INCL PSYCHOL	TOTAL SCIENCES	HISTORY	ENG AND AMER LANG AND LIT	FOREIGN LANG AND LIT	OTHER HUMANITIES	HUMANITIES	PROFESSIONAL FIELDS	EDUCATION	TOTAL NON-SCIENCES	OTHER OR UNSPECIFIED
1879	765	738	739	553	4674	14989	745	590	385	1183	2903	1037	4864	8234 ²	34		
63.5	91.3	66.4	83.9	77.5	71.9	82.0	77.5	54.7	48.9	68.3	63.7	77.4	65.3	64.0	77.3		
91.5	66.9	84.0	79.2	78.5	82.8	75.3	91.8	92.9	81.3	87.2	88.5	79.0	86.8	88.1			
3.9	30.7	13.8	17.1	19.3	13.8	21.9	6.3	5.6	15.8	9.3	8.6	18.9	7.6	9.3			
4.6	2.4	2.2	3.8	2.2	3.4	2.8	2.7	1.5	2.9	3.6	2.8	2.1	2.5	2.6			
63.0	70.1	69.5	67.9	73.8	67.2	67.2	68.1	66.1	65.7	63.7	65.6	77.4	81.1	75.6			
30.3	26.3	26.6	25.2	22.1	27.3	28.4	26.3	29.7	29.4	30.2	29.0	18.5	14.7	15.9			
6.7	3.7	3.9	6.9	4.2	5.5	4.4	5.6	4.2	4.9	6.1	5.4	4.1	4.1	4.6			
29.8	30.7	32.3	32.7	32.7	31.0	30.1	32.1	31.6	33.3	32.8	32.4	33.8	36.1	34.4			
67.5	63.1	56.0	55.3	30.4	58.6	62.8	66.2	80.2	59.0	54.4	63.2	38.4	37.4	46.0			
76.2	78.4	86.7	88.0	95.1	82.3	73.3	88.9	84.2	81.6	83.3	84.7	92.6	95.9	91.9			
7.1	7.9	9.0	9.6	9.5	8.1	7.4	9.5	9.2	10.1	10.0	9.7	10.4	12.3	11.0			
5.5	5.7	6.7	6.2	6.1	5.9	5.7	7.2	6.6	7.0	6.8	6.9	5.3	6.5	6.6			
16.0	3.8	9.1	5.0	3.8	9.7	26.4	7.0	3.6	5.2	4.4	5.0	2.1	3.0	3.6			
8.9	1.6	5.1	2.6	1.3	5.2	12.6	4.2	1.7	1.6	1.8	2.3	1.0	1.4				
2.9	1.8	3.0	1.6	.9	2.3	11.2	.9	.2	2.1	.5	.9	1.0	.8	.9			
2.6	.1	.1	.1	.4	1.2	1.1	.1	.2	.3	.2	.3	.3	.5	.3			
1.6	.3	.8	.7	1.3	1.1	1.5	1.7	1.5	1.3	1.6	1.6	.2	.8	1.0			
75.6	90.8	83.7	84.7	87.2	82.2	56.6	81.2	87.1	83.6	85.5	84.5	92.4	91.2	89.1			
33.8	57.9	69.1	58.6	65.3	51.0	33.7	60.0	75.3	70.9	69.7	68.5	68.0	69.9	69.2			
6.3	9.5	3.3	5.4	5.1	6.1	15.6	3.1	4.9	3.1	6.0	3.8	7.7	3.0	3.8			
18.3	16.9	5.6	13.1	8.9	14.1	12.6	7.9	1.7	2.3	2.6	3.8	5.2	11.2	8.0			
12.4	2.6	3.0	3.8	3.8	6.9	3.3	3.8	1.5	2.8	6.0	4.0	9.5	4.4	4.9			
4.8	3.9	2.8	3.8	4.2	4.1	2.7	6.4	3.7	4.9	3.3	4.4	1.9	2.7	3.2			
8.4	5.4	7.2	10.3	9.0	8.1	7.1	11.8	9.3	11.2	10.1	10.5	5.5	5.8	7.3			
11.2	2.1	5.7	3.0	2.4	6.5	19.6	2.4	1.7	2.1	2.7	2.6	1.6	1.5	1.8			
4.8	1.7	3.4	2.0	1.4	3.3	6.7	3.6	1.9	3.1	2.7	2.4	.7	1.6	1.7			
53.7	74.8	61.8	62.8	64.4	61.1	49.1	47.9	51.2	50.0	58.1	53.2	81.4	79.1	59.3			
21.9	16.1	22.0	21.9	22.8	21.1	17.4	33.5	35.4	33.0	27.5	31.3	11.0	22.1	23.8			
15.7	33.9	20.2	10.8	13.8	19.0	39.8	7.3	1.3	2.1	5.5	4.7	6.9	6.0	5.9			
29.7	51.6	66.2	57.8	66.6	49.0	36.4	66.7	81.6	81.5	73.9	74.7	67.3	35.9	50.9			
4.9	3.3	3.3	13.6	6.5	5.9	4.0	2.0	6.2	3.1	4.5	5.8	5.7	38.5	24.9			
43.2	1.6	2.9	3.7	4.5	17.2	9.9	4.8	2.0	1.5	4.2	3.6	9.5	9.3	7.8			
1.1	3.5	.9	5.0	.8	2.1	2.3	4.5	2.6	5.1	3.5	3.8	3.3	1.1	2.2			
5.5	6.3	6.6	9.9	7.9	6.8	7.6	7.6	6.2	6.7	8.3	7.5	7.3	9.2	8.5			
28.3	34.8	44.5	34.9	44.7	35.4	27.5	26.6	27.5	37.9	27.2	28.5	39.2	14.1	21.7			
12.7	11.4	9.4	5.4	8.7	10.2	10.3	6.4	3.0	4.6	6.6	5.6	7.5	11.3	9.2			
11.4	8.6	7.5	7.3	5.9	8.9	8.5	6.7	6.6	7.2	8.6	7.5	7.0	9.8	8.8			
10.0	3.0	.4	3.0	3.7	5.1	4.8	2.5	2.6	2.6	5.1	3.7	8.5	8.8	7.4			
2.2	1.0	.9	1.7	2.2	1.7	1.2	1.4	2.6	1.0	6.7	3.9	1.2	1.5	2.1			
29.7	35.0	30.7	37.7	27.0	31.9	40.1	49.0	51.5	40.0	37.7	43.3	29.3	45.3	42.4			
5.5	6.3	6.6	9.9	7.9	6.8	7.6	7.6	6.2	6.7	8.3	7.5	7.3	9.2	8.5			
7.4	9.3	7.7	6.9	3.6	7.2	6.2	6.5	10.5	14.8	7.4	9.3	4.1	4.7	5.9			
17.4	14.0	14.0	14.2	16.6	15.6	15.0	16.5	13.8	14.4	13.7	14.4	15.9	13.7	13.5			
18.0	12.4	12.1	8.4	18.3	14.4	13.3	14.6	13.1	15.4	18.0	15.9	15.4	15.9	15.8			
6.5	4.7	6.8	5.2	5.1	5.8	5.4	5.6	5.6	6.7	7.9	6.7	6.4	9.4	8.2			
15.4	24.7	13.6	27.6	14.0	18.8	16.4	16.8	18.7	13.3	11.8	14.5	15.9	17.0	16.2			
5.6	2.6	5.3	4.3	3.1	4.6	4.3	5.6	7.2	2.6	4.8	5.2	7.2	5.4	5.6			
8.2	3.8	9.0	6.5	7.0	7.0	7.0	7.8	10.5	7.2	9.6	9.1	9.6	7.9	8.5			
4.9	3.7	5.9	2.2	6.5	4.6	5.6	4.5	4.9	3.1	4.2	4.3	5.9	6.5	5.8			
9.6	6.3	10.5	11.4	10.4	9.5	11.3	8.1	6.9	8.7	9.8	8.7	9.0	9.5	9.2			
3.8	16.6	12.1	10.8	12.9	9.9	11.9	6.7	6.2	9.2	9.5	8.2	13.0	6.2	7.7			
3.2	1.9	3.1	2.6	2.8	2.8	2.8	4.8	2.6	4.6	3.3	3.7	2.5	3.9	3.6			

? Statistics are not presented because too few records contained the specified data

TABLE 2
STATISTICAL PROFILE OF DOCTORATE RECIPIENTS BY FIELD OF DOCTORATE, FY 1977^{1/}

DOCTORATES: WOMEN

	FY 1977 TOTAL	PHYSICS AND ASTRONOMY	CHEMISTRY	EARTH, ENVIRONM. AND MARINE SCIENCES	PHYSICAL SCIENCES	MATHEMATICS	ENGINEERING	COMPUTER FIELDS	BASIC MEDICAL SCIENCES	PSYCHOLOGY	BIOMEDICAL SCIENCES	BIOCHEMISTRY	PHYSICAL SCIENCES	AGRICULTURAL SCIENCES	ENVIRONMENTAL SCIENCES	LIFE SCIENCES
TOTAL FEMALE	7845	64	180	54	303	128	74	505	399	330	729	165	43	557		
FEMALE AS A PERCENT OF TOTAL DOCTORATES	24.8	5.6	11.5	6.5	8.9	13.3	2.8	7.2	22.4	23.8	23.0	24.6	5.8	20.1		
U.S. CITIZENSHIP	88.4	66.1	71.7	79.7	71.6	71.9	56.8	69.5	83.7	83.5	83.7	80.6	61.9	81.7		
FOREIGN CITIZENSHIP	8.9	34.4	27.2	20.3	27.4	26.6	41.9	29.3	13.5	13.5	13.7	18.2	38.1	16.1		
UNKNOWN	2.7	1.6	1.1	0	1.0	1.6	1.4	1.2	2.6	2.4	2.6	1.2	0	0	2.2	
MARRIED	53.5	68.8	52.2	52.5	55.8	57.0	56.2	56.6	50.3	50.3	50.1	48.5	42.6	49.3		
NOT MARRIED	42.3	28.1	43.8	45.8	40.9	39.1	32.4	32.2	45.6	46.1	45.8	49.1	57.1	47.1		
UNKNOWN	4.1	3.1	3.9	1.7	3.3	3.9	2.4	2.2	4.5	3.6	4.1	2.4	0	0	5.4	
MEDIAN AGE AT DOCTORATE	32.8	29.1	28.2	29.1	28.6	29.0	28.2	28.7	29.0	29.7	29.3	32.4	32.1	29.6		
PERCENT WITH BACC IN SAME FIELD AS DOCTORATE	52.2	28.1	81.7	54.2	75.6	85.9	73	74.1	17.8	17.6	40.3	32.1	33.3	38.5		
PERCENT WITH MASTERS	84.9	70.3	45.6	83.1	58.1	84.4	90.5	69.5	45.4	62.1	56.1	67.9	90.5	60.4		
MEDIAN TIME LAPSE FROM BACC TO DOCT																
TOTAL TIME YRS	9.7	7.2	8.1	6.9	6.5	7.2	6.4	6.7	6.6	7.6	7.1	8.6	8.2	7.3		
REGISTERED TIME YRS	6.2	6.2	5.2	5.9	5.5	5.9	5.4	5.6	5.5	6.0	5.9	5.5	5.3	5.7		
POSTDOCTORAL STUDY PLANS																
FELLOWSHIP	14.3	51.6	50.6	37.6	38.2	8.6	16.2	23.5	75.4	44.8	51.5	37.8	20.6	54.6		
RESEARCH ASSOC	7.7	7.8	18.9	16.9	15.2	2.3	6.8	11.3	50.6	32.9	41.7	19.4	7.9	35.6		
TRAINEESHIP	4.3	39.1	30.0	20.3	20.0	3.1	8.1	20.0	19.6	12.4	12.7	14.1	15.5			
OTHER	1.7	0	0	0	0	2.3	0	0	2.3	3	4.4	2.4	0	1.5		
PLANNED EMPLOYMENT																
AFTER DOCTORATE	77.0	35.9	42.2	55.9	43.6	83.6	74.3	58.2	18.5	49.1	32.4	53.3	74.6	38.8		
EDUC INSTITUTION	57.3	12.5	18.3	25.4	18.5	65.6	24.3	24.3	12.0	32.9	21.9	32.7	41.2	25.1		
INDUSTRY/BUSINESS	4.0	9.4	17.2	13.6	14.9	9.4	31.1	15.8	2.5	3.3	2.9	5.5	12.2	4.7		
GOVERNMENT	6.5	4.7	3.3	11.9	5.3	3.1	12.2	5.7	1.8	5.9	3.6	12.3	12.7	5.3		
NONPROFIT	4.5	1.6	1.7	3.4	2.0	1.6	2.7	2.0	3	2.1	1.1	3.0	4.8	1.7		
OTHER & UNKNOWN	4.8	7.8	1.7	1.7	3.0	3.9	4.1	3.4	2.0	3.9	2.9	1.8	3.2	2.7		
POSTDOCT STATUS UNKN	8.7	12.5	7.2	6.8	6.3	7.8	9.5	8.3	6.0	6.1	6.0	9.7	4.6	6.6		
DEFINITE POSTDOCTORAL STUDY	9.7	28.1	37.8	30.5	36.3	12.3	9.5	22.6	61.2	32.4	48.1	30.2	11.1	42.6		
SEEKING POSTDOCTORAL STUDY	4.6	23.4	12.8	6.8	13.9	6.3	6.8	10.9	14.3	12.6	13.4	6.7	9.5	2.2		
DEFINITE EMPLOYMENT	51.1	16.1	29.3	32.2	26.1	50.8	57.4	36.0	12.0	32.6	20.4	34.5	41.3	24.2		
SEEKING EMPLOYMENT	25.9	21.9	13.9	23.7	17.5	32.8	23.0	22.2	6.5	18.5	11.9	18.8	33.3	11.6		
EMPLOYMENT ACTIVITY																
AFTER DOCTORATE																
PRIMARY ACTIVITY																
R & D	11.1	33.3	52.9	31.6	45.6	23.1	65.8	41.8	31.3	26.1	28.2	26.3	53.8	30.6		
TEACHING	56.7	44.4	33.3	42.1	36.7	66.2	28.9	45.6	47.9	56.4	53.1	45.6	23.1	48.3		
ADMINISTRATION	12.7	0	2.0	0	1.3	3.1	2.6	2.2	4.2	5.0	6.8	3.8	5.6			
PROF. SERVICES	12.3	11.1	0	21.1	6.3	3.1	0	3.8	4.2	5.0	4.7	10.5	3.6	6.2		
OTHER	2.0	11.1	3.9	0	3.8	0	0	1.6	4.2	2.0	2.7	1.8	7.7	3.0		
ACTIVITY UNKNOWN	5.2	0	7.8	5.3	6.3	4.6	2.6	4.9	8.9	5.0	6.0	7.0	7.7	6.5		
SECONDARY ACTIVITY																
R & D	28.3	22.2	21.6	42.1	26.6	47.7	23.7	33.5	27.1	35.6	32.9	26.3	19.2	29.7		
TEACHING	9.9	2.0	0	1.3	13.8	5.3	6.6	16.7	8.9	11.4	19.3	30.8	15.5			
ADMINISTRATION	8.5	0	3.9	10.5	5.1	0	5.3	3.3	8.3	6.9	7.4	8.8	3.0	6.9		
PROF. SERVICES	7.1	0	2.0	5.3	2.5	4.6	2.6	3.3	4.2	3.0	3.4	1.8	3.8	3.0		
OTHER	2.1	0	0	0	0	0.5	0	0.5	0	1.0	0.7	0.6	0	0.4		
NO SECONDARY ACTIVITY	39.0	77.8	62.7	36.8	58.2	27.7	60.5	47.8	35.6	39.6	38.3	36.8	38.5	37.9		
UNKNOWN	5.2	0	7.8	5.3	6.3	4.6	2.6	4.9	8.3	5.0	6.0	7.0	7.7	6.5		
REGION OF EMPLOYMENT																
AFTER DOCTORATE																
NEW ENGLAND	8.1	11.1	7.8	10.5	8.9	12.3	0	8.2	4.2	9.9	8.1	5.3	0	6.5		
MIDDLE ATLANTIC	15.2	11.1	27.5	5.3	20.3	15.4	26.3	19.8	12.5	7.9	9.4	14.0	0	9.5		
EAST NO CENTRAL	15.9	22.2	23.5	15.8	21.5	24.6	5.3	19.2	12.5	12.9	12.6	12.3	11.5	12.5		
WEST NO CENTRAL	6.8	0	2.0	0	1.3	3.1	0	1.6	6.3	7.9	7.4	3.5	15.4	7.3		
SOUTH ATLANTIC	17.2	22.2	11.8	10.5	12.7	12.3	18.4	13.7	16.7	23.8	21.5	21.1	23.1	21.6		
EAST SO CENTRAL	5.2	0	3.9	0	2.5	1.9	10.5	3.8	6.3	5.0	5.4	5.3	15.6	6.5		
WEST SO CENTRAL	8.1	0	2.0	5.3	2.5	9.2	10.5	6.6	2.1	7.9	6.0	10.5	0	6.5		
MOUNTAIN	5.1	0	0	21.1	5.1	1.5	5.3	3.8	4.2	3.0	3.4	1.8	7.7	3.4		
PACIFIC & INSULAR	9.7	33.3	7.8	15.8	12.7	7.7	15.8	11.5	16.7	6.9	10.1	8.8	3.8	9.1		
FOREIGN	5.2	0	13.7	15.8	22.7	9.2	7.9	10.4	10.6	9.9	10.1	15.8	23.1	12.9		
REGION UNKNOWN	3.5	0	0	0	0	3.1	0	1.1	8.3	5.0	6.0	4.8	0	4.3		

1/ Refer to explanatory note on page 12 and the description of doctoral field groupings inside back cover

TABLE 2. CONTINUED

DOCTORATES: WOMEN

PSYCHOLOGY	ECONOMICS	ANTHROPOLOGY	AS SOCIOLOGY	POLIT. SCI. PUBLIC ADMIN. INT'L REL.	OTHER SOC. SCI. SCIENCES	SOCIAL SCIENCES INCL. PSYCH.	TOTAL SCIENCES	HISTORY	ENG. AND AMER. (LANG. AND LIT.)	FOREIGN LANG. AND LIT.	OTHER HUMANITIES	HUMANITIES PROFESSIONAL FIELDS	EDUCATION	TOTAL NON-SCIENCES	OTHER PROFESSIONAL	UNSPECIFIED
1081	73	37	142	161	2830	3292	216	489	403	546	1656	303	2564	4543	10	
36.5	8.7	33.6	16.1	22.5	28.1	18.0	22.5	45.3	51.1	31.7	36.3	22.6	34.7	34.0	22.7	
91.6	71.2	89.5	90.8	87.6	89.9	82.4	90.7	93.0	85.6	88.1	89.3	86.8	93.1	91.3		
4.2	28.8	8.3	5.3	9.9	6.7	12.9	4.6	6.3	11.4	8.8	7.5	13.6	4.5	6.1		
4.3	1.0	2.1	2.8	2.5	3.4	2.7	4.6	2.7	3.0	3.1	3.1	1.7	2.4	2.6		
50.5	47.9	50.5	56.3	47.8	50.7	51.4	55.1	55.8	55.1	46.8	52.5	51.8	57.0	55.0		
43.8	52.1	45.6	38.0	44.7	44.2	44.3	38.4	40.1	40.2	48.7	42.8	45.6	39.3	41.0		
5.6	0.0	3.6	5.6	7.5	5.1	4.4	6.5	4.1	4.7	4.7	4.8	2.3	3.7	4.0		
30.0	29.6	32.8	31.7	31.6	30.7	30.0	33.4	33.2	32.7	33.1	33.1	34.4	37.5	35.2		
68.3	68.5	56.8	52.8	21.1	57.1	54.3	62.0	80.2	71.2	45.3	64.1	36.0	44.1	51.8		
74.2	74.0	68.2	82.4	91.9	79.2	72.3	84.0	91.0	88.8	87.8	89.8	94.7	96.7	91.1		
7.2	7.8	9.3	9.6	9.6	7.9	7.5	10.5	10.2	9.9	10.3	10.2	9.6	12.2	11.6		
5.5	5.8	6.9	6.7	6.2	5.9	5.8	7.8	7.4	7.4	7.3	7.4	5.8		6.7		
15.0	5.5	10.3	7.0	3.1	12.1	27.7	8.3	3.3	6.5	6.2	5.7	4.3	3.9	4.6		
1.8	1.4	7.2	2.8	1.2	6.8	10.8	4.6	1.4	3.7	2.7	2.8	0.7	4.2	1.8		
2.5	4.1	2.1	2.1	1.2	2.3	8.9	5.5	2.2	1.0	1.3	0.8	1.7	1.0	1.6		
2.1	0.0	0.0	0.0	0.0	0.3	1.2	0.0	0.0	0.0	0.4	0.1	0.7	0.5	0.6		
-2.3	1.6	1.3	2.1	0.6	1.9	1.9	3.2	1.0	1.7	1.8	1.9	0.2	1.1	1.6		
75.6	86.3	82.0	91.0	85.7	78.6	63.9	74.5	84.0	81.6	83.2	81.9	89.1	89.2	86.6		
39.4	53.4	70.5	50.3	72.7	50.1	89.9	61.6	72.8	71.2	69.5	69.9	69.0	75.0	65.9		
4.5	5.5	2.1	7.0	3.7	4.2	5.9	1.9	3.3	2.0	2.0	2.4	4.3	2.6	2.6		
12.4	15.1	2.7	12.7	3.7	9.8	7.9	1.4	1.2	1.0	1.5	1.3	5.6	8.1	5.5		
12.9	2.7	2.7	7.0	3.7	9.1	5.9	2.3	6.1	1.5	3.8	2.1	7.6	2.5	3.4		
6.4	9.6	4.0	4.2	1.9	5.5	4.3	7.4	6.1	6.0	6.2	6.2	2.6	4.7	5.1		
9.4	8.2	7.2	12.0	11.2	9.3	8.4	17.1	12.7	11.9	10.6	12.4	6.6	6.9	8.4		
9.7	4.1	9.7	3.5	1.2	3.8	20.2	4.2	1.6	1.7	2.4	2.2	2.0	2.1	2.4		
5.3	1.6	3.5	3.5	1.9	4.3	7.6	4.2	1.6	4.7	3.8	3.4	2.3	1.8	2.6		
50.1	68.5	58.2	60.6	59.6	56.2	42.7	39.4	51.1	47.6	51.3	48.7	58.0	61.6	57.2		
25.4	17.8	23.9	20.4	26.1	24.5	21.2	35.2	32.9	34.2	34.0	33.2	21.1	27.8	29.3		
13.7	30.0	19.4	18.6	14.6	16.2	31.9	2.4	3.2	1.0	5.0	3.2	5.7	5.9	5.3		
35.8	58.0	69.6	52.3	71.9	49.2	48.6	71.8	62.0	68.5	83.6	83.0	66.5	69.1	61.0		
4.2	1.0	23.2	17.4	4.2	3.9	4.7	9.4	3.6	3.1	2.5	3.7	13.6	24.2	17.0		
42.1	4.0	1.8	1.2	2.1	23.9	18.4	2.4	3.6	1.0	1.8	2.2	8.3	12.6	9.5		
3.3	2.0	1.9	4.7	3.1	1.7	1.9	3.5	2.0	1.6	2.8	2.4	1.0	2.0	2.0		
3.0	6.0	5.1	5.8	4.2	3.9	4.5	10.6	5.6	4.7	4.3	5.5	1.9	6.1	5.6		
32.1	38.0	46.5	36.0	38.5	36.5	35.0	40.0	26.8	35.1	37.7	34.0	36.4	18.4	24.7		
14.9	8.0	7.8	7.0	12.5	12.1	12.0	4.7	4.4	5	2.5	2.9	12.1	11.2	8.7		
10.0	4.0	6.5	4.7	4.2	7.9	7.1	4.7	8.0	6.8	7.1	7.1	10.2	10.1	9.2		
8.3	2.0	2.8	3.5	5.2	6.1	5.2	1.2	5.6	12.0	4.3	2.6	9.7	10.9	8.2		
1.3	0.0	0.0	4.7	4.2	4.5	1.2	3.5	2.8	0	5.0	3.0	1.0	7.6	2.6		
30.4	42.0	31.3	38.4	31.3	32.0	35.0	35.3	50.6	51.8	39.1	45.4	28.6	40.6	41.2		
3.0	6.0	5.1	5.8	4.2	3.9	4.5	10.6	5.6	4.7	4.3	5.5	1.6	6.1	5.6		
10.5	12.0	9.7	5.8	3.1	9.3	8.7	4.7	12.8	16.8	9.3	11.6	6.3	5.9	7.7		
19.9	10.0	15.7	22.1	9.4	17.7	16.0	24.7	16.4	19.9	17.1	19.0	14.6	12.3	14.5		
13.1	10.0	12.9	12.8	21.9	13.7	14.2	22.4	16.4	13.6	17.1	16.6	20.4	16.5	16.8		
6.1	2.0	5.5	3.5	3.9	5.2	5.1	7.1	6.4	4.7	7.5	6.4	6.8	8.6	7.7		
17.0	28.0	19.2	26.7	13.5	17.7	17.8	16.5	14.0	11.0	10.7	12.5	12.6	19.5	16.8		
6.1	4.0	4.6	3.5	6.7	4.3	4.6	4.7	4.0	3.7	2.5	3.5	7.3	6.3	5.5		
6.5	0.0	7.4	3.5	5.2	6.0	6.1	1.2	9.2	6.8	7.8	7.3	11.7	9.8	9.2		
4.6	6.0	8.8	2.3	9.4	5.9	5.2	7.1	2.4	2.6	3.9	3.5	4.4	5.9	5.0		
10.1	10.0	11.1	8.1	17.7	10.9	10.7	4.7	8.4	12.0	14.2	10.9	8.3	8.3	9.1		
3.1	12.0	6.9	3.5	7.3	7.8	6.9	4.7	2.8	5.8	7.5	5.3	7.8	3.3	4.3		
5.0	0.0	12.3	8.1	3.1	4.5	4.1	2.6	4.8	3.1	2.5	3.3	5	3.5	3.2		

2/ Statistics are not presented because too few records contained the specified data.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

TABLE 3
PERCENTAGE OF FY 1977 DOCTORATE RECIPIENTS BY SOURCES OF SUPPORT IN GRADUATE SCHOOL, BY SEX AND SUMMARY FIELDS

SOURCES OF SUPPORT IN GRADUATE SCHOOL	PHYSICAL SCIENCES		ENGINEERING		LIFE SCIENCES		SOCIAL SCIENCES		HUMANITIES		PROF. FIELDS		EDUCATION		TOTAL
	MEN/WOMEN		MEN/WOMEN		MEN/WOMEN		MEN/WOMEN		MEN/WOMEN		MEN/WOMEN		MEN/WOMEN		
NSF FELLOWSHIP	M	289/ 28	135/ 5	140/ 49	165/ 63	18/ 15	6/ 3	96/ 32	345/ 187						
	VS	7.6/ 6.8	5.5/ 7.1	3.87/ 5.3	3.8/ 3.7	7.7/ 6	3.7/ 2	2.1/ 1.9	3.7/ 2.5						
	HS	33.7/ 15.0	16.0/ 2.7	16.6/ 26.2	19.5/ 33.7	2.1/ 5.3	11.4/ 17.1	100.0/ 100.0							
NSF TRAINEESHIP	M	297/ 21	103/ 5	88/ 3	90/ 25	6/ 5	2/ 3	11/ 24	456/ 206						
	VS	5.2/ 5.1	4.2/ 7.1	2.64/ 4.7	2.0/ 1.5	2.7/ 3	2.7/ 1.0	2.7/ 1.2	2.2/ 1.6						
	HS	39.7/ 19.8	20.8/ 4.7	17.7/ 40.6	18.1/ 23.6	1.2/ 4.7	4.4/ 2.0	2.0/ 3.8	55.0/ 20.0						
NIH FELLOWSHIP	M	37/ 8	20/ 2	188/ 52	162/ 119	4/ 1	13/ 9	14/ 16	38/ 20						
	VS	1.0/ 1.9	0.82/ 2.9	5.2/ 5.7	6.7/ 6.9	0.1/ 1	1.3/ 1.1	1.3/ 1.7	1.3/ 2.0						
	HS	8.4/ 3.9	4.6/ 1.0	42.9/ 25.1	37.0/ 57.5	0.9/ 5	3.0/ 4.2	3.2/ 7.7	100.0/ 100.0						
NIH TRAINEESHIP	M	52/ 6	47/ 0	731/ 276	310/ 164	2/ 4	2/ 18	10/ 19	1162/ 468						
	VS	1.7/ 2.2	1.9/ 0	20.0/ 30.0	7.0/ 9.6	1.1/ 1	2.1/ 0.2	2.7/ 6.6	5.2/ 6.6						
	HS	5.2/ 1.8	4.0/ 0	61.8/ 56.7	26.2/ 33.7	1.2/ 2	1.6/ 3.7	1.6/ 3.9	100.0/ 100.0						
NOEA FELLOWSHIP	M	176/ 30	62/ 2	108/ 22	260/ 88	400/ 214	30/ 8	25/ 58	1162/ 490						
	VS	4.7/ 7.3	2.5/ 2.9	3.0/ 3.5	5.9/ 5.7	14.6/ 13.8	3.5/ 1.1	2.7/ 2.4	5.1/ 5.3						
	HS	15.1/ 7.0	5.3/ 1.5	9.3/ 7.4	22.4/ 22.5	34.4/ 49.3	2.0/ 1.4	10.8/ 13.5	44.9/ 40.1						
NATIONAL DIRECT STUDENT LOANS	M	184/ 10	97/ 3	237/ 45	589/ 182	476/ 176	99/ 23	455/ 216	2170/ 674						
	VS	4.5/ 2.4	3.9/ 4.3	6.5/ 5.2	13.6/ 12.6	17.7/ 14.4	5.1/ 6.3	11.5/ 8.3	11.5/ 8.7						
	HS	8.5/ 1.6	4.5/ 1.5	10.9/ 7.1	27.1/ 28.3	22.1/ 27.1	4.6/ 3.5	22.4/ 33.7	100.0/ 100.0						
OTHER NEW	M	21/ 3	21/ 0	96/ 45	267/ 181	27/ 16	153/ 39	158/ 153	153/ 153						
	VS	0.6/ 1	0.9/ 0	2.6/ 4.9	6.1/ 10.5	0.2/ 1.6	0.7/ 1.5	0.7/ 6.3	0.7/ 6.3						
	HS	3.5/ 1.0	3.0/ 0	13.9/ 10.2	35.5/ 41.0	3.5/ 2.1	4.1/ 3.8	28.5/ 37.0	100.0/ 100.0						
NASA TRAINEESHIP	M	41/ 3	45/ 1	10/ 0	10/ 2	1/ 2	1/ 2	1/ 1	1/ 1						
	VS	1.1/ 1.7	1.8/ 1.4	0.3/ 1.2	0.2/ 1.2	0.1/ 1.2	0.1/ 1.2	0.1/ 1.2	0.1/ 1.2						
	HS	38.3/ 30.0	42.1/ 11.0	9.3/ 1.0	9.3/ 22.0	0.5/ 1.0	0.5/ 2.0	0.5/ 2.0	0.5/ 2.0						
GI BILL	M	410/ 2	155/ 0	471/ 6	642/ 7	566/ 5	128/ 1	56/ 1	416/ 146						
	VS	25.5/ 1.5	8.1/ 0	12.5/ 1.7	14.6/ 1.4	11.6/ 1.4	4.1/ 1.2	4.1/ 1.2	20.1/ 20.1						
	HS	13.2/ 5.4	5.6/ 0	15.2/ 15.7	20.7/ 13.4	11.6/ 8.1	6.6/ 1.0	6.6/ 1.0	20.1/ 20.1						
OTHER FEDERAL SUPPORT	M	237/ 22	225/ 6	225/ 41	350/ 133	224/ 55	55/ 22	73/ 72	404/ 193						
	VS	6.3/ 4.8	9.3/ 8.6	6.2/ 4.5	8.9/ 7.8	5.5/ 5.8	5.5/ 7.7	5.5/ 7.7	4.7/ 2.5						
	HS	16.6/ 5.7	14.0/ 1.7	15.3/ 11.4	27.0/ 37.7	6.5/ 6.7	1.6/ 1.0	1.6/ 1.0	100.0/ 100.0						
WOODROW WILSON FELLOWSHIP	M	12/ 1	1/ 0	2/ 1	30/ 21	72/ 53	0/ 0	0/ 0	116/ 73						
	VS	0.3/ 0.2	0.1/ 0	0.1/ 1	0.7/ 1.2	0.7/ 3.0	0/ 0	0/ 0	0/ 0						
	HS	6.5/ 1.3	1.8/ 0	0.6/ 1.3	33.8/ 26.6	6.5/ 6.7	0/ 0	0/ 0	100.0/ 100.0						
OTHER NATIONAL FELLOWSHIP	M	76/ 11	40/ 5	67/ 23	187/ 81	156/ 14	26/ 11	74/ 52	410/ 200						
	VS	2.1/ 2.7	1.6/ 1.1	1.8/ 2.5	4.1/ 4.7	5.5/ 7.4	0/ 0	0/ 0	0/ 0						
	HS	12.6/ 3.6	6.5/ 1.6	10.6/ 7.5	29.2/ 24.5	25.5/ 37.3	4.2/ 1	4.2/ 1	100.0/ 100.0						
UNIVERSITY FELLOWSHIP	M	793/ 96	284/ 19	545/ 165	947/ 327	924/ 547	12/ 50	172/ 245	422/ 242						
	VS	21.1/ 22.8	5.6/ 27.1	14.9/ 17.9	22.7/ 15.1	14.1/ 13.4	1.5/ 1.4	1.5/ 1.4	100.0/ 100.0						
	HS	18.3/ 5.3	8.9/ 1.3	12.6/ 1.1	23.0/ 21.9	2.4/ 3.7	4.6/ 1.7	4.6/ 1.7	100.0/ 100.0						
TEACHING ASSISTANTSHIP	M	2533/ 312	992/ 32	1484/ 387	2343/ 427	1763/ 986	47/ 42	177/ 712	1453/ 1012						
	VS	75.1/ 73.1	41.3/ 45.7	40.8/ 42.1	53.3/ 48.2	55.1/ 63.7	4.6/ 3.7	26.4/ 28.1	44.5/ 44.5						
	HS	24.3/ 19.1	9.1/ 1.0	13.7/ 11.4	21.6/ 24.8	16.2/ 29.6	4.2/ 2.9	10.5/ 11.1	44.5/ 44.5						
RESEARCH ASSISTANTSHIP	M	2411/ 247	1657/ 49	1722/ 362	1714/ 598	371/ 192	295/ 70	174/ 424	4914/ 1946						
	VS	64.2/ 55.8	67.2/ 70.0	47.2/ 34.3	39.1/ 34.8	3.5/ 2.5	28.5/ 15.7	6.7/ 7.2	35.8/ 35.8						
	HS	27.0/ 12.7	18.5/ 2.5	19.3/ 18.6	1.5/ 20.7	4.2/ 1.5	3.1/ 1.7	6.7/ 2.0	100.0/ 100.0						
EDUC. FUNDS OF INDUSTRY	M	198/ 25	244/ 4	97/ 15	80/ 28	32/ 19	6/ 5	1.4/ 1.4	83/ 74						
	VS	5.3/ 6.1	5.9/ 12.9	2.7/ 2.1	1.8/ 1.5	0.2/ 1.2	0.7/ 1.7	0.7/ 1.7	0.7/ 1.7						
	HS	23.8/ 17.1	29.4/ 6.2	11.7/ 13.0	9.5/ 19.2	3.5/ 13.0	2.9/ 1.4	12.7/ 23.1	100.0/ 100.0						
OTHER INSTITUTION FUNDS	M	201/ 25	106/ 1	284/ 77	411/ 166	248/ 162	82/ 33	4.4/ 304	1748/ 766						
	VS	5.4/ 6.1	4.3/ 1.4	7.8/ 8.4	9.3/ 9.7	9.2/ 10.3	8.3/ 11.5	8.3/ 12.1	10.4/ 10.4						
	HS	11.5/ 3.3	6.17/ 1	16.3/ 10.1	23.5/ 21.7	14.2/ 20.9	4.7/ 4.3	23.7/ 39.7	100.0/ 100.0						
OUR EARNINGS	M	1196/ 127	947/ 25	1295/ 296	2575/ 557	1708/ 912	56/ 142	5633/ 774	1145/ 421						
	VS	31.9/ 30.8	38.6/ 28.6	35.5/ 32.0	58.5/ 55.8	53.1/ 59.5	47.2/ 57.1	77.8/ 72.1	13.1/ 57.4						
	HS	19.0/ 3.0	7.5/ 1.5	10.8/ 6.9	21.5/ 22.4	14.3/ 21.4	4.5/ 4.3	30.1/ 32.5	100.0/ 100.0						
SPOUSE'S EARNINGS	M	1087/ 58	563/ 17	1309/ 226	1557/ 573	1073/ 537	367/ 16	1481/ 481	7437/ 2431						
	VS	29.3/ 23.7	22.8/ 24.3	35.5/ 24.6	35.4/ 33.4	35.6/ 34.7	37.0/ 34.4	32.9/ 35.3	32.9/ 32.8						
	HS	14.6/ 4.0	7.6/ 1.7	17.6/ 9.3	20.4/ 23.6	14.4/ 22.1	4.9/ 4.1	15.9/ 15.7	100.0/ 100.0						
FAMILY CONTRIBUTIONS	M	432/ 45	244/ 6	534/ 146	805/ 346	585/ 366	143/ 40	505/ 294	9378/ 1243						
	VS	11.5/ 10.9	14.0/ 8.6	14.6/ 15.9	18.3/ 20.2	21.5/ 23.7	14.5/ 15.9	15.5/ 14.5	15.5/ 14.5						
	HS	12.8/ 3.6	10.2/ 1.5	15.8/ 11.8	23.8/ 27.9	17.3/ 19.5	4.2/ 3.8	15.8/ 23.5	100.0/ 100.0						
OTHER LOANS	M	232/ 14	173/ 5	307/ 75	634/ 224	411/ 192	138/ 29	138/ 29	138/ 29						
	VS	6.1/ 3.6	7.0/ 7.8	8.4/ 8.2	14.4/ 13.2	15.2/ 12.4	4.0/ 3.0	10.7/ 10.7	10.7/ 10.7						
	HS	9.3/ 1.7	7.0/ 0.8	12.4/ 9.4	25.6/ 28.2	15.6/ 23.9	5.6/ 5.0	17.7/ 32.5	100.0/ 100.0						
OTHER	M	203/ 23	150/ 3	266/ 61	318/ 127	204/ 42	78/ 12	204/ 124	144/ 154						
	VS	5.4/ 5.6	6.1/ 4.3	7.3/ 6.6	7.2/ 7.4	7.5/ 5.0	7.5/ 4.0	7.5/ 4.0	7.5/ 4.0						
	HS	13.6/ 4.2	10.1/ 1.5	17.8/ 11.9	21.3/ 22.9	13.7/ 25.4	5.2/ 1.8	13.7/ 25.4	13.7/ 25.4						
UNDUPLICATED TOTAL	M	3754/ 413	2464/ 70	3646/ 922	4398/ 1746	2707/ 1547	554/ 488	2707/ 1547	2707/ 1547						

1. Data are not comparable with data for previous years because of a change in the source of data. The data reported are not reliable but relative frequencies should serve as useful approximations.

2. Includes mathematics.

3. Includes AEC ERDA Fellowship which was formerly shown separately.

4. The 34 individuals shown in Table 3 as having sufficient "Other and Unknown" are not included in the totals.

TABLE 4
NUMBER OF DOCTORATE RECIPIENTS BY SEX, STATE OF DOCTORAL INSTITUTION AND SUMMARY FIELD, FY 1977¹

STATE OF DOCTORAL INSTITUTION	NUMBER OF DOCTORATE RECIPIENTS BY FIELD												COTHER & UNSPEC.	TOTAL
	PHYSICAL SCIENCES		ENGI- NEERING		LIFE SCIENCES		SOCIAL SCIENCES		PROF. FIELDS		EDUCATION			
	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN	MEN/WOMEN
U.S. TOTAL	3938	431	2567	74	3810	957	4674	1830	2903	1656	1037	303	4864	2584
ALABAMA	18	0	12	2	42	11	23	2	0	7	7	1	85	47
ALASKA	2	0	0	0	3	0	0	0	0	0	0	0	0	0
ARIZONA	66	3	29	1	94	16	61	19	17	9	11	0	86	43
ARKANSAS	9	0	7	0	10	0	7	2	7	6	16	0	24	18
CALIFORNIA	529	49	448	9	413	123	578	197	304	180	86	20	294	156
COLORADO	85	5	44	0	69	11	407	34	44	29	18	5	175	77
CONNECTICUT	63	11	23	1	71	24	89	24	85	64	9	3	36	19
DELAWARE	14	2	7	0	4	2	9	2	3	3	0	0	1	2
D. C.	50	11	30	0	22	23	117	53	54	46	23	6	72	48
FLORIDA	98	10	43	4	101	17	134	60	46	32	26	6	440	205
GEORGIA	49	5	36	0	74	17	84	26	48	19	31	2	83	63
HAWAII	17	2	7	0	26	7	39	9	14	7	0	0	2	5
IDAHO	12	1	3	0	13	1	2	0	5	2	0	0	10	0
ILLINOIS	232	27	180	7	207	36	300	115	173	93	71	25	213	132
INDIANA	152	8	87	6	118	26	141	46	126	55	48	10	177	74
IDAHO	67	10	48	0	79	11	59	13	60	22	16	2	92	33
KANSAS	27	3	26	0	57	11	47	23	21	16	10	4	94	32
KENTUCKY	51	3	11	0	32	6	33	7	17	12	16	0	24	8
LOUISIANA	36	4	19	0	41	8	41	8	40	15	37	2	28	25
MAINE	4	0	6	0	7	0	3	1	1	0	0	0	13	3
MARYLAND	90	17	45	4	84	33	69	36	57	31	9	2	56	69
MASSACHUSETTS	299	30	172	11	142	64	277	120	191	120	61	22	224	133
MICHIGAN	129	16	82	2	216	31	219	83	138	77	53	22	273	145
MINNESOTA	35	4	32	0	97	17	82	38	51	25	16	10	66	35
MISSISSIPPI	13	1	9	0	44	6	37	1	17	5	14	0	82	38
MISSOURI	68	8	68	0	65	16	87	30	46	24	34	9	122	47
MONTANA	12	0	1	0	13	43	13	0	0	0	0	0	20	1
NEBRASKA	14	3	3	0	29	6	28	12	22	11	14	0	46	18
NEVADA	13	0	0	0	3	0	8	4	2	0	0	0	0	0
NEW HAMPSHIRE	22	3	3	0	12	1	6	3	3	3	0	0	0	3
NEW JERSEY	115	25	64	3	72	30	89	26	92	29	6	11	82	50
NEW MEXICO	26	2	17	1	13	3	19	3	20	21	0	0	28	16
NEW YORK	397	51	245	3	356	122	586	309	365	257	98	32	368	257
NORTH CAROLINA	90	6	45	0	126	27	95	53	80	51	16	7	70	32
NORTH DAKOTA	9	0	0	0	23	2	8	4	2	0	2	0	15	1
OHIO	156	16	100	2	129	44	204	78	126	58	68	29	235	130
OKLAHOMA	39	1	40	1	53	12	50	20	23	12	11	4	82	45
OREGON	53	7	11	0	78	9	55	32	27	18	12	2	75	25
PENNSYLVANIA	194	25	164	8	148	37	225	91	148	92	53	23	262	123
RHODE ISLAND	58	7	17	0	19	4	28	16	35	19	0	0	0	0
SOUTH CAROLINA	35	3	10	0	19	1	16	5	17	6	0	1	28	21
SOUTH DAKOTA	0	0	1	0	7	2	8	1	0	0	0	0	14	15
TENNESSEE	34	6	53	2	22	57	20	75	37	50	25	8	89	77
TEXAS	191	17	157	5	184	38	175	74	123	54	67	12	254	158
UTAH	47	1	27	0	48	10	69	15	22	6	6	7	138	32
VERMONT	3	1	1	0	18	1	5	6	2	3	0	0	0	0
VIRGINIA	52	1	56	2	71	12	55	9	30	11	6	5	110	54
WASHINGTON	67	3	37	0	83	14	71	38	50	22	15	3	37	20
WEST VIRGINIA	6	1	9	0	23	7	18	6	8	1	0	0	30	13
WISCONSIN	122	12	50	5	120	33	120	28	89	58	17	9	85	39
WYOMING	14	2	2	0	14	2	9	1	1	0	0	0	14	4
PUERTO RICO	1	0	0	0	0	0	0	0	1	0	0	0	0	0

1/ Refer to explanatory note on page 3.

2/ Includes mathematics.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File

TABLE 5
STATISTICAL PROFILE OF DOCTORATE RECIPIENTS BY RACIAL OR ETHNIC GROUP AND U.S. CITIZENSHIP STATUS, FY 1977

	TOTAL			INDIAN			ASIAN			BLACK					
	U.S.		NON-U.S.	TOTAL		PERM.	TOTAL		PERM.	TOTAL		PERM.	TOTAL		PERM.
	PERM.	TEMP.	PERM.	TEMP.	PERM.	TEMP.	PERM.	TEMP.	PERM.	TEMP.	PERM.	TEMP.	PERM.	TEMP.	PERM.
TOTAL NUMBER	26007	1369	3447	31672	220		338	565	1117	2052	1106	77	248	1446	4
% MALE VS FEMALE VS	73.3	80.8	87.3	75.2	72.3		76.0	85.4	85.4	83.5	61.4	89.6	94.8	68.5	
DOCTORAL FIELD															
PHYSICAL SCIENCES	VS	12.8	15.6	15.6	13.8	7.7	18.0	28.5	25.2	25.1	3.8	2.2	6.2	6.1	
ENGINEERING	VS	5.6	23.8	22.4	8.2	5.5	19.8	31.8	25.2	25.1	1.0	5.2	7.7	2.4	
LIFE SCIENCES	VS	14.4	17.3	16.3	15.1	16.8	18.3	21.1	21.1	20.5	5.0	15.1	22.2	8.5	
SOCIAL SCIENCES	VS	21.2	14.7	16.4	20.5	21.8	16.3	9.0	13.0	12.3	17.9	27.3	24.6	19.6	
ARTS & HUMANITIES	VS	15.6	11.7	6.3	14.4	11.2	11.2	1.9	4.3	4.9	8.6	16.9	12.5	9.7	
EDUCATION	VS	26.1	7.9	11.0	23.5	31.6	11.8	4.6	6.2	7.8	4.0	28.1	22.2	5.1	
PROFESSIONS & OTHER	VS	4.3	5.0	5.0	4.4	2.7	14.4	3.2	2.9	3.2	3.7	7.0	4.8	3.9	
MEDIAN AGE AT DOCTORATE		31.6	32.1	31.3	31.6	33.7	32.8	31.1	31.0	31.3	35.9	35.1	33.4	34.2	
MEDIAN TIME LAPSE BA-PHD															
% TOTAL TIME		8.8	8.8	8.0	8.7	9.5	9.8	8.2	8.1	8.1	8.9	8.5	7.2	10.3	
REGISTERED TIME		6.1	6.3	6.5	6.1	6.3	6.5	6.1	5.7	5.9	5.9	6.5	6.2	5.7	
GRADUATE SCHOOL SUPPORT															
FEDERAL FELLOW/TRAINEE	VS	27.4	11.0	9.6	24.2	26.4	29.3	11.2	9.4	13.1	24.3	31.9	20.1		
GI BILL	VS	12.6	1.1	0.0	6.9	14.1	4.1	1.0	1.2	2.0	2.2	3.0	2.1	2.6	
OTHER FELLOWSHIP	VS	21.1	23.4	22.5	21.8	15.8	22.6	22.2	20.8	21.7	26.1	22.1	22.4	26.8	
TEACHING ASSISTANTSHIP	VS	46.9	49.0	38.3	44.8	46.4	44.4	49.2	46.0	42.4	26.9	31.2	31.4	27.3	
RESEARCH ASSISTANTSHIP	VS	32.6	51.9	48.7	34.4	30.0	44.1	69.4	58.4	55.6	15.1	33.8	27.5	18.2	
EDUC./INST. FUNDS	VS	11.2	8.3	11.9	10.8	11.8	12.7	7.4	10.5	9.8	11.2	16.5	12.5		
OWN/SPOUSE EARNINGS	VS	70.8	53.3	30.1	63.8	78.6	61.2	42.5	23.1	36.4	67.4	74.1	34.7	41.8	
FAMILY CONTRIBUTIONS	VS	14.9	15.5	15.5	14.6	12.7	14.8	16.3	21.3	16.8	9.3	13.0	12.5	9.4	
NATL DIRECT STNT LOAN	VS	10.4	6.6	.6	8.9	15.6	8.9	3.5	.4	2.7	14.8	23.4	7.7	2.7	
OTHER LOANS	VS	11.5	8.6	5.4	10.4	20.5	10.1	4.0	2.6	4.2	14.6	23.4	7.7	13.8	
OTHER	VS	6.7	4.7	22.0	8.5	4.5	2.7	2.5	12.6	6.0	5.7	7.5	31.5	10.4	
UNKNOWN	VS	2.6	1.9	4.0	5.2	.9	1.2	1.9	2.0	2.8	2.3	1.3	3.2	2.8	
POSTDOCTORAL STUDY PLANS															
PLANNED EMPLOYMENT AFTER DOCTORATE	VS	16.1	25.5	24.6	17.0		19.8	35.7	33.5	31.6	6.9	10.4	13.3	8.2	
EDUC. INSTITUTION	VS	78.9	69.4	68.6	75.4	82.7	75.1	60.6	61.2	62.7	88.0	84.4	78.6	85.8	
INDUSTRY/BUSINESS	VS	52.7	35.7	61.3	49.6	55.9	50.2	20.9	35.5	31.4	69.3	57.1	51.4	45.3	
GOVERNMENT	VS	8.9	23.1	16.4	9.5	10.0	12.6	32.5	12.4	19.2	3.5	4.5	2.7		
NON-PROFIT	VS	9.5	3.9	10.6	9.0	10.0	6.6	3.3	9.3	7.5	6.5	61.7	14.5	12.4	
OTHER & UNKNOWN	VS	4.4	2.6	2.4	4.0	4.1	2.7	1.8	2.2	2.1	3.1	1.3	2.4	2.8	
POSTDOC STATUS UNKNOWN	VS	3.3	4.1	3.9	3.4	2.7	3.0	2.1	1.9	2.1	2.7	7.5	6.0	3.4	
DEFINITE POSTDOC STUDY															
SEEKING POSTDOC STUDY	VS	12.1	15.3	14.4	12.2	8.2	13.0	20.9	20.1	18.4	4.2	3.9	6.5	4.7	
DEFINITE EMPLOYMENT	VS	57.3	41.7	47.1	54.1	60.0	50.0	35.1	40.1	39.9	61.7	40.2	49.2	58.5	
SEEKING EMPLOYMENT	VS	21.6	27.6	21.5	21.3	22.7	25.1	25.5	21.1	22.9	26.9	44.2	29.4	27.9	
EMPLOYMENT LOCATION AFTER DOCTORATE															
U.S.	VS	94.9	85.2	23.7	87.8	93.2	92.9	90.0	27.2	56.2	94.0	67.7	16.4	81.6	
FOREIGN	VS	2.0	10.7	72.2	8.9	3.8	1.2	6.0	68.1	39.0	1.0	22.6	77.0	13.0	
UNKNOWN	VS	3.1	4.0	4.1	3.3	3.0	5.9	4.0	4.7	4.8	5.0	9.7	5.7	5.4	

1/ Data not comparable with data for earlier years because of changes in the survey question on race/ethnic group. See discussion on page 29.
 2/ See definition on page 30. The definition used in this survey is not consistent with the guidance received from DBC subsequent to this survey, which defines "Hispanic" more restrictively to exclude persons from Portugal and to include only those persons from Central and South America who are of Spanish origin, descent or culture. Under the revised definition persons from Brazil, Guyana, Surinam, Trinidad, and Belize would be classified according to their race, and would not necessarily be included in the Hispanic category.

3/ Includes 854 individuals who did not report their citizenship at time of doctorate.

TABLE 5. CONTINUED

HISPANIC ²			WHITE			OTHER & UNKNOWN			TOTAL		
U.S.	NON-U.S.	TOTAL	U.S.	NON-U.S.	TOTAL	U.S.	NON-U.S.	TOTAL	U.S.	NON-U.S.	TOTAL
PERM.	TEMP.		PERM.	TEMP.		PERM.	TEMP.		PERM.	TEMP.	
421	50	232	714	22824	587	1448	24920	515	1102	476	2320
73.6	70.0	90.5	79.1	73.7	75.8	86.5	74.5	77.1	88.0	78.0	73.3
26.4	30.0	9.5	20.9	26.3	24.2	13.5	25.5	22.9	12.0	21.2	26.7
11.2	18.0	20.3	14.6	13.0	13.3	17.7	13.3	17.6	19.1	15.5	12.8
4.3	8.0	17.2	8.8	5.6	21.1	23.5	7.1	6.5	21.8	10.1	5.6
7.1	10.0	32.8	15.8	15.0	16.1	15.3	15.0	13.0	19.5	14.5	17.3
17.8	14.0	15.9	16.8	21.5	17.9	17.5	21.2	21.2	17.4	22.5	21.2
29.5	36.0	4.3	19.0	15.7	19.1	7.3	15.2	18.9	5.7	15.4	15.6
31.8	12.0	6.0	21.7	24.9	7.8	11.7	23.7	18.0	11.3	17.5	26.1
3.3	2.0	3.4	3.2	4.3	6.6	7.0	4.5	4.8	5.0	4.5	5.0
48.1	34.5	32.7	33.0	31.4	32.8	30.7	31.4	31.3	32.0	31.5	31.6
9.1	9.3	8.8	9.0	8.7	9.2	7.8	8.7	8.5	8.8	8.6	8.8
6.2	6.1	5.1	5.8	6.1	6.4	5.5	6.1	6.3	5.8	6.1	6.1
23.5	10.0	12.9	18.8	28.2	11.1	9.2	26.7	15.1	12.2	11.6	27.6
10.2	0.0	0.0	6.3	12.4	12.2	0.0	11.4	7.0	7.0	3.3	12.1
29.9	14.0	16.6	21.6	21.0	27.6	26.1	21.6	14.4	18.5	10.7	21.1
42.0	46.0	20.7	34.9	48.7	50.9	42.6	48.3	33.5	35.9	23.5	46.0
22.6	28.0	35.3	26.9	33.9	39.5	48.6	34.9	25.1	43.3	21.1	32.6
11.2	18.0	16.8	13.4	11.3	8.8	11.1	11.2	6.9	12.8	5.9	11.2
67.0	66.0	24.6	52.2	72.3	61.2	37.0	69.9	44.0	28.2	26.9	70.8
12.1	16.0	9.5	11.3	15.6	15.8	13.5	15.4	8.1	12.4	6.5	14.4
14.5	4.0	9.9	9.2	10.2	7.3	7.6	9.6	7.7	2.3	4.2	10.4
13.5	8.0	6.0	10.5	11.4	10.9	7.2	11.1	8.3	5.5	5.1	11.5
6.2	10.0	37.9	16.8	4.7	6.1	25.1	5.9	2.9	18.7	5.3	4.7
1.2	2.0	7.3	4.5	1.2	1.4	3.0	1.4	33.3	10.9	49.5	2.6
14.3	14.0	15.5	14.4	16.7	18.7	23.3	17.1	13.7	17.6	10.2	16.1
82.7	78.0	74.1	78.6	79.9	75.6	72.3	79.2	49.3	65.8	37.6	69.4
59.1	56.0	42.7	52.8	55.1	44.8	44.7	52.3	29.0	38.9	22.3	52.7
5.5	10.0	7.3	6.3	9.1	18.2	11.3	9.5	7.8	8.8	5.5	8.9
12.4	6.0	18.5	13.9	9.6	3.2	9.7	9.5	6.4	9.0	5.0	9.5
2.1	2.0	3.4	2.5	4.6	3.7	2.5	4.5	3.3	1.7	2.0	4.4
3.6	4.0	2.2	3.1	3.4	5.6	4.1	3.5	2.8	7.4	2.8	3.3
3.1	8.0	10.3	7.0	3.4	5.6	4.4	3.7	37.0	16.6	52.2	4.9
8.1	6.0	9.1	8.1	12.7	12.3	14.2	12.8	10.5	8.8	6.9	12.4
6.2	8.0	6.5	6.3	4.0	6.5	9.2	4.3	3.2	8.8	3.3	10.2
61.0	50.0	56.9	58.7	58.2	48.0	51.3	57.5	34.1	43.1	25.7	57.3
20.9	29.0	17.2	19.9	21.6	27.6	21.0	21.7	15.2	22.7	11.9	21.6
94.6	80.0	3.6	66.1	95.0	85.5	26.1	91.2	92.3	30.2	71.0	94.9
1.2	16.0	90.9	30.5	2.1	11.7	70.1	5.6	2.1	63.9	23.5	4.0
1.2	4.0	1.5	3.3	2.9	2.8	3.6	3.0	5.6	5.9	5.5	3.1

4/ Includes individuals who did not report their citizenship at time of doctorate.

5/ Includes those who provided no usable response to the "item on 'racial' or ethnic group" and those who used an eat. for form which did not contain this item.

6/ Includes mathematics.

7/ The base for this % is the number of doctorates, in the column caption group who have found definite employment.

SOURCE: NRC, Commission on Human Resources, Doctorate Records File.

SURVEY OF EARNED DOCTORATES, Cont.

P. Please enter a 1 beside your primary source of support during graduate study. Enter a 2 beside your secondary source of support during graduate study. Check all other sources from which support was received.

58 <input type="checkbox"/> NSF Fellowship	66 <input type="checkbox"/> GI Bill	72 <input type="checkbox"/> Research Assistantship	76 <input type="checkbox"/> Spouse's earnings
59 <input type="checkbox"/> NSF Traineeship	67 <input type="checkbox"/> Other Federal support (specify)	73 <input type="checkbox"/> Educational fund of industrial or business firm	77 <input type="checkbox"/> Family contribu- tions
60 <input type="checkbox"/> NIH Fellowship	68 <input type="checkbox"/> Woodrow Wilson Fellowship	74 <input type="checkbox"/> Other institutional funds (specify)	78 <input type="checkbox"/> Loans (NDSL direct)
61 <input type="checkbox"/> NIH Traineeship	69 <input type="checkbox"/> Other U.S. national fellowship, (specify)	75 <input type="checkbox"/> Own earnings	79 <input type="checkbox"/> Other loans
62 <input type="checkbox"/> NDEA Fellowship	70 <input type="checkbox"/> University Fellowship		80 <input type="checkbox"/> Other (specify)
63 <input type="checkbox"/> Other HEW 64 <input type="checkbox"/> AEC ERDA 65 <input type="checkbox"/> NASA Traineeship	71 <input type="checkbox"/> Teaching Assistantship		

Q. Please check the space which most fully describes your status during the year immediately preceding the doctorate.

0 <input type="checkbox"/> Held fellowship	Full-time Employed in (Other than 0-1-2)	5 <input type="checkbox"/> College or university, teaching
1 <input type="checkbox"/> Held assistantship		6 <input type="checkbox"/> College or university, non-teaching
2 <input type="checkbox"/> Held own research grant		7 <input type="checkbox"/> Elem. or sec. school, teaching
3 <input type="checkbox"/> Not employed		8 <input type="checkbox"/> Elem. or sec. school, non-teaching
4 <input type="checkbox"/> Part-time employed		9 <input type="checkbox"/> Industry or business

10 <input type="checkbox"/> (specify)	11 <input type="checkbox"/> Other (specify)
12 <input type="checkbox"/> Any other (specify)	

R. How many years full-time equivalent basis of professional work experience did you have prior to the doctorate? (Include assistantships as professional experience.)

POSTGRADUATION PLANS

S. How well defined are your postgraduation plans?

0 <input type="checkbox"/> Have signed contract or made definite commitment	1 <input type="checkbox"/> Am negotiating with a specific organization, or more than one	2 <input type="checkbox"/> Am seeking appointment but have no specific prospect
3 <input type="checkbox"/> Other (specify)		

U. My plan to be employed (enter military, service, or other) - What will be the type of employment?

1 <input type="checkbox"/> 4-year college or other non-medical school	2 <input type="checkbox"/> Medical school
3 <input type="checkbox"/> Jr. or community college	4 <input type="checkbox"/> Elem. school
5 <input type="checkbox"/> Elem. or sec. school	6 <input type="checkbox"/> Foreign government
7 <input type="checkbox"/> U.S. Federal government	8 <input type="checkbox"/> U.S. State government
9 <input type="checkbox"/> U.S. local government	10 <input type="checkbox"/> Nonprofit organization
11 <input type="checkbox"/> Industry or business	12 <input type="checkbox"/> Self-employed
13 <input type="checkbox"/> Other (specify)	14 <input type="checkbox"/> Other (specify)

T. What are your immediate postgraduation plans?

0 <input type="checkbox"/> Postdoctoral fellowship?	1 <input type="checkbox"/> Going to Item U
1 <input type="checkbox"/> Postdoctoral research associateship?	2 <input type="checkbox"/> Item U
2 <input type="checkbox"/> Traineeship?	3 <input type="checkbox"/> Other study (specify)
3 <input type="checkbox"/> Other study (specify)	4 <input type="checkbox"/> Going to Item V
4 <input type="checkbox"/> Employment other than 1-2-3?	5 <input type="checkbox"/> Military service?
5 <input type="checkbox"/> Military service?	6 <input type="checkbox"/> Other (specify)

U. If you plan to be on a postdoctoral fellowship, associateship, traineeship or other study? Indicate primary field of study and check appropriate box
1 Social sciences and math 2 Appropriate box
3 Research and development
4 Teaching
5 Administration
6 Professional services to individuals
7 Other (specify)

V. In what field will you be working? Please enter number from Spec. List 1-13

Go to Item W

W. What will be the field of your postdoctoral study?

Class A Using Spec. List

Number Field

W. What will be the primary source of support?

0 <input type="checkbox"/> U.S. Government	1 <input type="checkbox"/> College or university
1 <input type="checkbox"/> College or university	2 <input type="checkbox"/> Private foundation
2 <input type="checkbox"/> Private foundation	3 <input type="checkbox"/> Nonprofit other than private foundation
3 <input type="checkbox"/> Nonprofit other than private foundation	4 <input type="checkbox"/> Other (specify)

W. In what field will you be working? Please enter number from Spec. List 1-13

6 Unknown
Go to Item W

Go to Item W

W. What is the name and address of the organization with which you will be associated?

Name of Organization

(Street)

City State

(Or Country if not U.S.)

104-29

BACKGROUND INFORMATION

X. Please indicate, by circling the highest grade attained, the education of

your father	none	1	2	3	4	5	6	7	8	9	10	11	12	College	1	2	3	4	MA	MD	PhD	Postdoctoral	(10)
your mother	none	1	2	3	4	5	6	7	8	9	10	11	12	College	1	2	3	4	MA	MD	PhD	Postdoctoral	(11)
		0	1	2	3	4	5	6	7	8	9	10	11	College	1	2	3	4	5	6	7	8	9

Signature

Date completed

(32-24)

MATHEMATICS

000 — Algebra
 010 — Analysis & Functional Analysis
 020 — Geometry
 030 — Logic
 040 — Number Theory /
 050 — Probability & Math. Statistics
 (see also 544, 670, 725, 727, 920)
 060 — Topology
 080 — Computing Theory & Practice
 082 — Operations Research (see also 478)
 085 — Applied Mathematics
 098 — Mathematics, General
 099 — Mathematics, Other*

ASTRONOMY

101 — Astronomy
 102 — Astrophysics

PHYSICS

110 — Atomic & Molecular
 120 — Electromagnetism
 132 — Acoustics
 134 — Fluids
 135 — Plasma
 136 — Optics
 138 — Thermal
 140 — Elementary Particles
 150 — Nuclear Structure
 160 — Solid State
 198 — Physics, General
 199 — Physics, Other*

CHEMISTRY

200 — Analytical
 210 — Inorganic
 220 — Organic
 230 — Nuclear
 240 — Physical
 250 — Theoretical
 260 — Agricultural & Food
 270 — Pharmaceutical
 275 — Polymer
 298 — Chemistry, General
 299 — Chemistry, Other*

EARTH, ENVIRONMENTAL AND MARINE SCIENCES

301 — Mineralogy, Petrology
 305 — Geochemistry
 310 — Stratigraphy, Sedimentation
 320 — Paleontology
 330 — Structural Geology
 341 — Geophysics (Solid Earth)
 350 — Geomorph. & Glacial Geology
 360 — Hydrology
 370 — Oceanography
 381 — Atmospheric Physics and Chemistry
 382 — Atmospheric Dynamics
 383 — Atmospheric Sciences, Other*
 388 — Environmental Sciences, General
 (see also 480, 528)
 389 — Environmental Sciences, Other*
 391 — Applied Geol., Geol. Engr.
 395 — Fuel Tech. & Petrol. Engr. (see also 479)
 398 — Earth Sciences, General
 399 — Earth Sciences, Other*

ENGINEERING

400 — Aerospace & Astronautical
 410 — Agricultural
 415 — Biomedical
 420 — Civil
 430 — Chemical
 435 — Ceramic
 437 — Computer
 440 — Electrical
 445 — Electronics
 450 — Industrial
 455 — Nuclear
 460 — Engineering Mechanics
 465 — Engineering Physics
 470 — Mechanical
 475 — Metallurgy & Phys. Met. Engr.

476 — Systems Design & Systems Science
 478 — Operations Research (see also 082)
 479 — Fuel Tech & Petrol Engr (see also 495)
 480 — Sanitary & Environmental
 486 — Mining
 497 — Materials Science
 498 — Engineering, General
 499 — Engineering, Other*

AGRICULTURAL SCIENCES

500 — Agronomy
 501 — Agricultural Economics
 502 — Animal Husbandry
 503 — Food Science & Technology
 504 — Fish & Wildlife
 505 — Forestry
 506 — Horticulture
 507 — Soils & Soil Science
 510 — Animal Science & Animal Nutrition
 511 — Phytopathology
 518 — Agriculture, General
 519 — Agriculture, Other*

MEDICAL SCIENCES

522 — Public Health & Epidemiology
 523 — Veterinary Medicine
 524 — Hospital Administration
 526 — Nursing
 527 — Parasitology
 528 — Environmental Health
 534 — Pathology
 536 — Pharmacology
 537 — Pharmacy
 538 — Medical Sciences, General
 539 — Medical Sciences, Other*

BIOLOGICAL SCIENCES

540 — Biochemistry
 542 — Biophysics
 544 — Biometrics & Biostatistics
 (see also 050, 670, 725, 727, 920)
 545 — Anatomy
 546 — Cytology
 547 — Embryology
 548 — Immunology
 550 — Botany
 560 — Ecology
 562 — Hydrobiology
 564 — Microbiology & Bacteriology
 566 — Physiology, Animal
 567 — Physiology, Plant
 569 — Zoology
 570 — Genetics
 571 — Entomology
 572 — Molecular Biology
 576 — Nutrition and/or Dietetics
 578 — Biological Sciences, General
 579 — Biological Sciences, Other*

PSYCHOLOGY

600 — Clinical
 610 — Counseling & Guidance
 620 — Developmental & Gerontological
 630 — Educational
 635 — School Psychology
 641 — Experimental
 642 — Comparative
 643 — Physiological
 650 — Industrial & Personnel
 660 — Personality
 670 — Psychometrics
 (see also 050, 544, 725, 727, 920)
 680 — Social
 698 — Psychology, General
 699 — Psychology, Other*

SOCIAL SCIENCES

700 — Anthropology
 708 — Communications*
 710 — Sociology
 720 — Economics (see also 501)
 725 — Econometrics
 (see also 050, 544, 670, 727, 920)
 727 — Statistics
 (see also 050, 544, 670, 725, 920)

740 — Geography
 745 — Area Studies*
 751 — Political Science
 752 — Public Administration
 755 — International Relations
 770 — Urban & Reg. Planning
 798 — Social Sciences, General
 799 — Social Sciences, Other*

HUMANITIES

802 — Art, History & Criticism
 804 — History, American
 805 — History, European
 806 — History, Other*
 807 — History & Philosophy of Science
 808 — American Studies
 809 — Theatre and Theatre Criticism
 830 — Music
 831 — Speech as a Dramatic Art
 (see also 885)
 832 — Archeology
 833 — Religion (see also 881)
 834 — Philosophy
 835 — Linguistics
 836 — Comparative Literature
 878 — Humanities, General
 879 — Humanities, Other*

LANGUAGES & LITERATURE

811 — American
 812 — English
 821 — German
 822 — Russian
 823 — French
 824 — Spanish & Portuguese
 826 — Italian
 827 — Classical*
 829 — Other Languages*

EDUCATION

900 — Foundations, Social & Philosophical
 910 — Educational Psychology
 968 — Elementary Educ., General
 909 — Secondary Educ., General
 918 — Higher Education
 919 — Adult Educ. & Extension Educ
 920 — Educ. Meas. & Stat
 929 — Curriculum & Instruction
 930 — Educ. Admin. & Superv.
 941 — Guid. Couns. & Student Pers.
 950 — Special Education
 (Gifted, Handicapped, etc.).
 960 — Audio-Visual Media

TEACHING FIELDS

970 — Agriculture Educ.
 972 — Art Educ.
 974 — Business Educ.
 976 — English Educ.
 978 — Foreign Languages Educ.
 980 — Home Economics Educ.
 982 — Industrial Arts Educ.
 984 — Mathematics Educ.
 986 — Music Educ.
 988 — Phys. Ed., Health, & Recreation
 989 — Reading Education
 990 — Science Educ.
 992 — Social Science Educ.
 993 — Speech Education
 994 — Vocational Educ.
 996 — Other Teaching Fields*

998 — Education, General
 999 — Education, Other*

OTHER PROFESSIONAL FIELDS

881 — Theology (see also 833)
 882 — Business Administration
 883 — Home Economics
 884 — Journalism
 885 — Speech & Hearing Sciences
 (see also 831)
 886 — Law & Jurisprudence
 887 — Social Work
 891 — Library & Archival Science
 897 — Professional Field, Other*
 899 — OTHER FIELDS*

CODE NUMBERS FOR FIELDS DISPLAYED IN TABLE 2

Physics & Astronomy (101-199)

Chemistry (200-299)

Earth Sciences (301-399)

Physical Sciences Subtotal (101-399)

Mathematics (000-099)

Engineering (400-499)

ENP Total (000-499)

Basic Medical Sciences (540-542, 545-548, 561-566, 572)

Other Biosciences (544, 550-562, 567-571, 576-579)

Biosciences Subtotal (540-579)

Medical Sciences (520-539)

Agricultural Sciences (500-519)

Life Sciences (500-579)

Psychology (600-699)

Economics and Econometrics (720, 725)

Anthropology & Sociology (708, 710)

Political Science, Public Administration, International Relations (751-755)

Other Social Sciences (708, 727-745, 770-799)

Social Sciences Total (600-799)

Total Sciences (000-799)

History (804-807)

English & American Language & Literature (811-812)

Foreign Languages & Literature (821-829)

Other Humanities (802, 808-809, 830-879)

Humanities Total (802-879)

Professional Fields (881-89)

Education (900-999)

Total Non-Sciences (802-89, 900-999)

Other or unspecified (899)